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JUNE-JULY 2025

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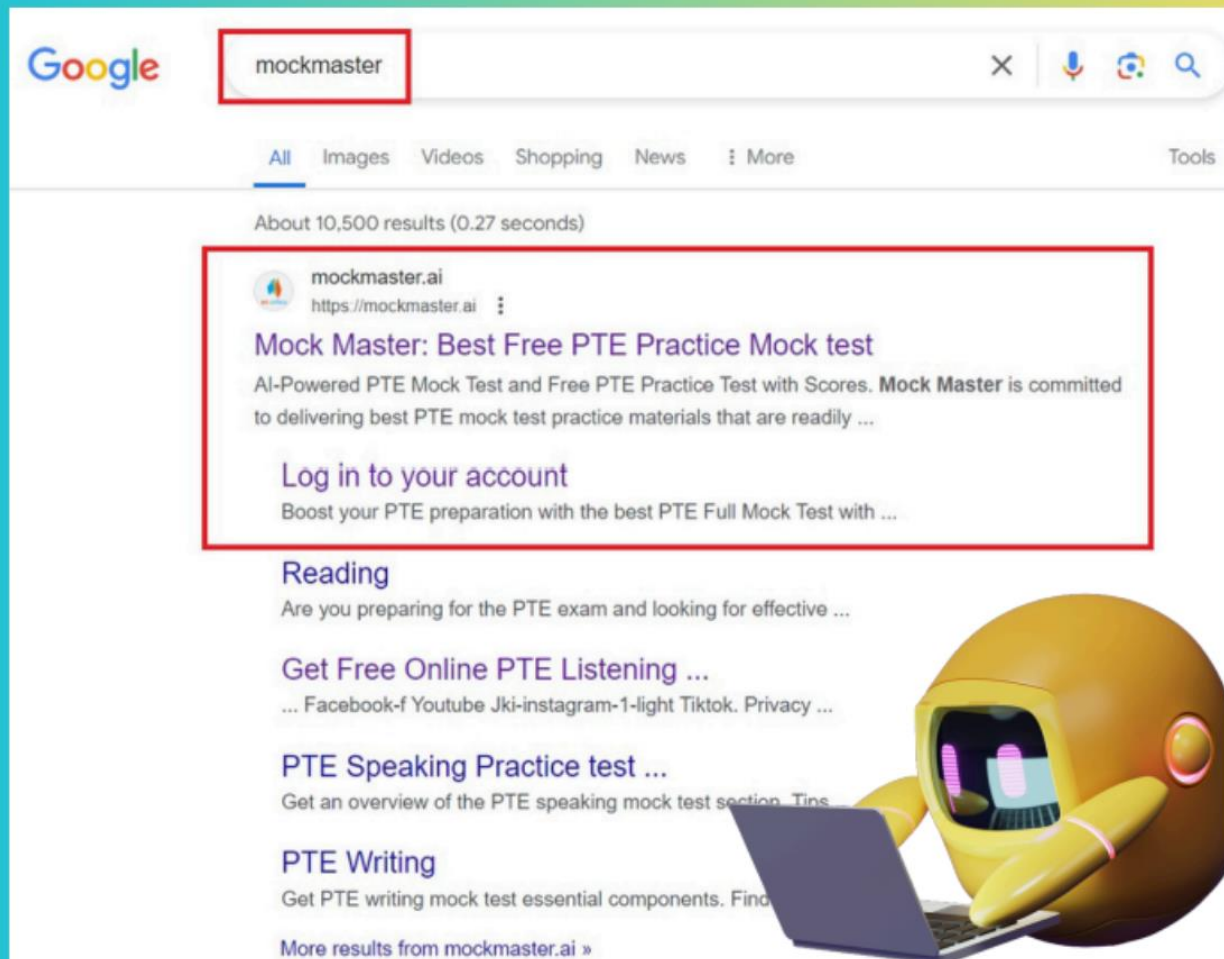


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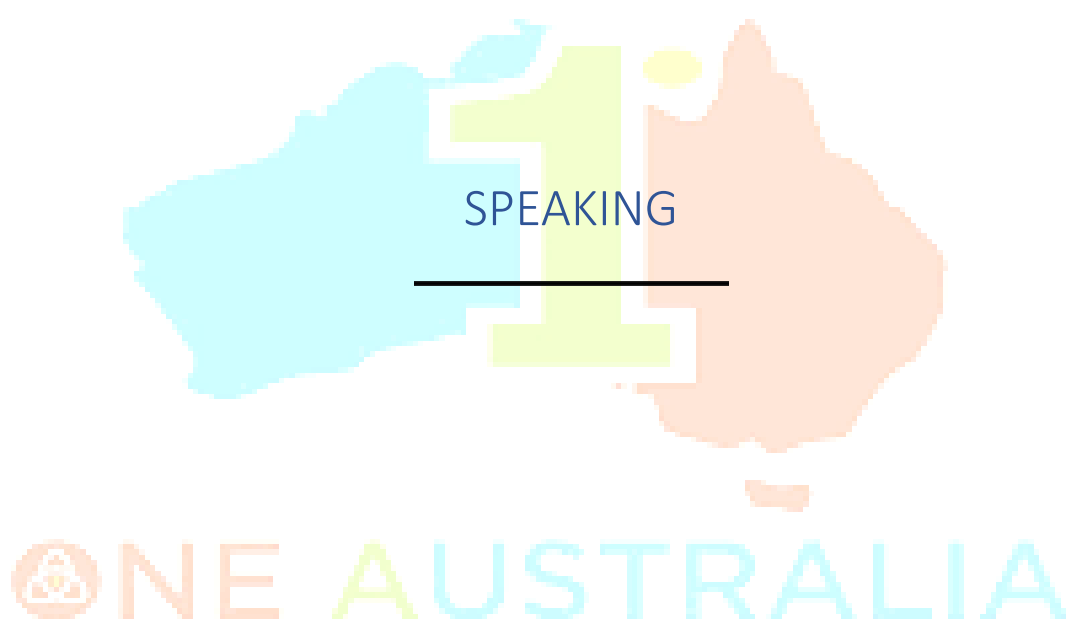
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Note: For best results, also go through our previous 2 PTE Prediction files.



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READ ALOUD

1. Lincoln

Lincoln's apparently radical change of mind about his war power to emancipate slaves was caused by the escalating scope of war, which convinced him that any measure to weaken the Confederacy and strengthen the Union war effort was justifiable as a military necessity.

2. Student's Reading

The student's reading in his own subject slows down, and his comprehension becomes less secure. He expresses himself slowly and often fails to convey his ideas exactly. He is disappointed to find that under pressure he makes a lot of unnecessary mistakes in areas where he knows the correct language forms.

3. US Student Debt

The numbers on US student debt, after all, are truly staggering. The average 2015 US university graduate who took out loans to help pay for tuition enters the work force with thirty-five thousand dollars in student debt. In the US, total student debt exceeds one point one five trillion dollars—dwarfing, for instance, the nation's credit card debt.

4. Will of the Government

In a genuine republic the will of the government is dependent on the will of the society, and the will of the society is dependent on the reason of the society. In Federalist 51, for example, James Madison claimed that the extent and the structure of the government of the United States make it dependent on the will of the society.

5. Chronic Disease

If you have a chronic disease such as heart disease, diabetes, asthma, or back or joint pain, exercise can have important health benefits. However, it is important to talk to your doctor before starting an exercise routine. He or she might have advice on what exercises are safe and any precautions you might need to take while exercising.

6. A University

A university is a lot more than just classes and exams. University is a concept that offers you a host of possibilities to develop both academically and personally. Find out about the different projects, clubs and societies that are in your university. You will definitely find something you are interested in.

7. Global Warming

Global warming is defined as an increase in the average temperature of the earth's atmosphere. This trend began in the middle of the 20th century and is one of the major environmental concerns of

scientists and governmental officials worldwide. The changes in temperature result mostly from the effect of increased concentrations of greenhouse gasses in the atmosphere.

8. Welfare

Welfare has a special political meaning to the United States because it refers to how the poor receives financial aid. In comparison, Welfare services are regarded as a universal right in other regions like Europe, where it is believed that all citizens should be able to obtain a minimal level of social support and well-being.

9. Insults and Criticism

The insults and criticism were not unexpected. What was surprising was people's enthusiasm about the competition. Thousands have participated in the discussion.

10. Communication Skill

Effective communication builds understanding and fosters relationships. Communication skills are essential in personal and professional settings, promoting trust and respect. Whether through spoken words, writing, or nonverbal cues, mastering communication enhances connections and helps convey ideas effectively. It is a cornerstone of successful interactions in all areas of life.

11. Himalayan Glaciers

A team of international researchers has uncovered a fascinating phenomenon: in response to rising global temperatures, Himalayan glaciers are actively working to preserve themselves by cooling the air in contact with their ice surface. However, it remains unclear how long these glaciers can continue to fightback against the effects of climate change.

12. Vocal Learning

The European starling is known for its impressive vocal abilities. These versatile song birds have the ability to learn a wide range of warbles, whistles, calls, and songs throughout their lives, making them one of the most advanced avian vocal learners. A recent study published in science has discovered that starlings also excel in problem-solving tasks.

13. Cryptocurrency Mining

Amid the global water crisis, the process of cryptocurrency mining has been found to consume a substantial amount of water, with predictions of an even greater demand in the future. A recent study has provided the first extensive calculation of the amount of water used by Bitcoin. The researcher has expressed concern over the potential impact on drinking water if this practice continues without proper regulation.

14. Black Hole

According to a recent study, a star located near the supermassive blackhole at the center of the Milky Way Galaxy has been determined to have originated from outside the Galaxy. This discovery marks

the first instance of a star from another galaxy being identified in close proximity to a super massive black hole.

15. Urban Forests

Urban forests play a crucial role in promoting urban sustainability and resilience. They contribute to climate change mitigation by sequestering carbon dioxide through photosynthesis. Urban forests also help manage storm water run-off by absorbing and filtering rainwater, reducing the risk of flooding. Furthermore, these green spaces provide social and psychological benefits, such as stress reduction and improved mental well-being.

16. Impaired Brain Function

Scientists have achieved the restoration of impaired brain function in mice models of stroke by utilizing small molecules, which may hold promise as a potential therapy for stroke recovery in the future. Tadeusz Wieloch, explains that the treatment has demonstrated the ability to partially restore communication between nerve cells in significant areas of the brain that are affected by stroke.

17. Better Cybersecurity

A new form of random number generator for encryption, created at Linköping University in Sweden, has the potential to make digital information exchange safer, more cost-effective, and environmentally friendly. The researchers involved in the study believe that this innovative technology could open up possibilities for a novel form of quantum communication.

18. Tri sauropodous

Numerous fossil sites in southern Africa preserve distinctive three-toed footprints that have been named Tri sauropodous. For many years, researchers have debated what animals might have left these tracks, as well as precisely how many different species (technically called ichnospecies) of Tri sauropodous there are.

19. Scientific Consensus

Although scientific consensus on human responsibility—reaffirmed by the sixth report of the Intergovernmental Panel on Climate Change (IPCC)—has been in place for decades, a third of the population still doubts or disputes it. This phenomenon can be explained by the disinformation spread by certain companies and lobbies over the last 50 years.

20. Brittle Stars

Relatives of starfish, brittle stars spend most of their time hiding under rocks and crevices in the ocean or burrowing in the sand. These shy marine creatures have no brain to speak of—just nerve cords running down each of their five wiggly arms, which join to form a nerve ring near their mouth.

21. Intermittent Fasting

Intermittent fasting is a popular dietary trend that involve salter nating periods of fasting and eating. Proponents claim that it can lead to weight loss, improved insulin sensitivity, and other health benefits. However, there are also potential risks such as nutrient deficiencies and eating disorders. It is important to consult with a healthcare professional before starting any fasting regimen.

22. Sunspot Cycle

Scientists at the Center of Excellence in Space Sciences India have made a significant finding regarding the connection between the Sun's magnetic field and its sunspot cycle. This discovery allows for the prediction of the timing of the peak in solar activity. Their research suggests that solar cycle 25 is approaching its maximum intensity and is expected to happen within a year.

23. Monster Waves

Long considered myth, freakishly large rogue waves are very real and can split apart ships and even damage oilrigs. Using 700 years' worth of wave data from more than a billion waves, scientists at the University of Copenhagen and University of Victoria have used artificial intelligence to find a formula for how to predict the occurrence of these maritime monsters.

24. Black Death

The Second Plague Pandemic of the mid- 14th century, also known as the Black Death, killed 30- 60 percent of the European population and profoundly changed the course of European history. New research suggests that this plague, potentially through resulting changes in diet and hygiene, may also be associated with a shift in the composition of the human oral microbiome toward one that contributes to chronic diseases in modern- day humans.

25. Seven Natural Wonders

The natural world is an incredible place. There are soaring mountains and rolling sand dunes, spectacular beaches and shimmering lakes, steaming geysers and bubbling volcanoes— and so much more. Although it's all truly dazzling, there are a few destinations and sights around the world that stand out from the rest. And the most significant of all are the seven natural wonders of the world.

26. Existentialism

Existentialism is a philosophical movement that explores the nature of human existence and the individual's struggle to find meaning in a chaotic and absurd world. It emphasizes personal freedom, responsibility, and the importance of subjective experience. Existentialist thinkers delve into concepts such as authenticity, anxiety, and the inevitability of death.

27. Perfect Pitch

Early experiences with music play a role in human beings. Most babies have perfect pitch, and this is usually preserved if they are given music lessons at an early age. Speaking a tonal language such as Mandarin— where words can have different meanings depending on tone and pitch— also help to develop perfect pitch.

28. Songbirds

Song birds do indeed have perfect pitch. A scientific study has shown that various songbirds, including zebra finches and white- throated sparrows, are much better at determining, distinguishing and remembering isolated pitches than human beings or rats. Even when human subjects were provided with a second sound for comparison, they were far less skilled at determining its pitch than songbirds.

29. Winter Months

As the nights draw in and the days turn a little gloomy, the winter months can often have an impact on our mental and physical health. With that in mind, a trip to sunnier climates might be exactly what you need to give your wellbeing a boost.

30. MAROON-X Instrument

Using the MAROON-X instrument on the Gemini- North Telescope, the team was able to identify and measure the abundance of 11 chemical elements in the atmosphere of the planet. Those include rock- forming elements whose abundances are not even known for giant planets in the Solar System such as Jupiter or Saturn.

31. Personal Library

Building a personal library requires careful consideration and a discerning eye for selecting literary works that resonate with one's intellectual curiosity. Beyond being a physical manifestation of one's intellectual journey, personal libraries serve as a sanctuary for intellectual stimulation and contemplation. They offer a haven for deep reading, critical thinking, and the exploration of new ideas.

32. University Terms

University terms are typically divided into semesters or quarters, with each term lasting several months. The academic calendar may also include summer sessions or intersessions, which offer additional opportunities for students to take courses and accelerate their degree progress. University terms are structured to provide students with a clear timeline for completing their course work and earning their degrees.

33. Cultural Attendance

A person's demographic and social background can influence their attendance at cultural venues and events. Household composition, in particular, plays a significant role in shaping cultural preferences. For instance, families with young children are more likely to visit theme parks and amusement centres, while single individuals may be more inclined to attend concerts and art galleries.

34. Strawberries

A recent study demonstrates that strawberries, consumed daily for 12 weeks, can improve memory and reduce depressive symptoms in middle- aged, overweight adults. This improvement is attributed

to the anti-inflammatory effects of anthocyanins in strawberries, highlighting the fruit's role in cognitive health.

35. Bonobos

Individuals that tended to engage in cooperative behaviour within their group were more likely to interact with bonobos in the other group that had the same tendency. This cooperation doesn't appear to be solely motivated by immediate reciprocation, the researchers say. For instance, during the study, only 14 percent of bonobos that shared food with a partner in the other group had the deed reciprocated.

36. Creativity

In the creative condition, the students were told to think of a friend who did something special and think of them as their "creative friend" who could help them solve any problem. This type of creativity training is called perspective-shifting, in which the kids look at a problem through the eyes of someone else.

37. Liquid Metals

Liquid metals hold the potential to revolutionize the chemical industry and address its environmental impact. By testing a new technique, researchers aim to replace the energy-intensive chemical engineering processes that have been in use since the early 20th century. This innovative approach offers a promising solution to "greening" the industry by reducing its carbon foot print and minimizing resource consumption.

38. Wildfires

Extratropical forests are globally significant because they store vast quantities of carbon in vegetation and permafrost soils. Approximately 91 percent of these forests in the northern hemisphere are underlain by permafrost. When fires occur in these regions, they emit large amounts of carbon dioxide (CO₂) and other greenhouse gases compared to other regions.

39. Cycads

Like their lumbering grazers, most cycads have gone extinct. Their disappearance from their prior habitats began during the late Mesozoic and continued into the early Cenozoic Era, punctuated by the cataclysmic asteroid impact and volcanic activity that mark the K-Pg boundary 66 million years ago. However, unlike the dinosaurs, somehow a few groups of cycads survived to the present.

40. Prevalence of Depression

The prevalence of depression has increased significantly in recent years, with rates ranging from 10% to 20% in the general population. Adolescents and children are also affected by this disorder. Various factors, including genetic predisposition, neurochemical imbalances, and psychosocial stressors, contribute to the development of depression.

41. Norms and Values

Norms and values are important concepts in sociology that shape human behavior and social interactions. Values are the fundamental beliefs that guide individuals' actions, while norms are the expectations that society has for people's behavior. In other words, values determine what is right or wrong, while norms determine what is acceptable or not.

42. AI Use

Similar to how chatbots may sometimes generate false information or fabricate responses, machine learning models developed for scientific purposes can also produce misleading or inaccurate results. However, researchers have recently introduced a novel statistical method that enables the safe utilization of AI predictions to evaluate scientific hypotheses.

43. Green

Green is a refreshing and rejuvenating color that is often associated with nature and growth. It has a calming effect and can promote feelings of balance and harmony. Green is also believed to have healed properties, making it a popular choice for healthcare settings. Its soothing effects make it an ideal color for relaxation spaces like living rooms and bedrooms.

44. 8,000 Steps

An international study led by the University of Granada (UGR) has provided the first scientific proof for how many steps you need to take per day to significantly reduce the risk of premature death: 8,000. Given the average length of a human stride (76 centimetres for men and 67 centimetres for women), taking 8,000 steps is equivalent to walking approximately 6.4 kilometres a day.

45. Parent Teacher Conferences

Schools host parent teacher conferences four times a year and it is important for families to attend. This is your chance to meet with teachers and ask questions about your child's progress. It can be helpful to write down questions ahead of time.

46. Bill

The bill calls for the establishment of the National Landslide Hazards Reduction Program within one year of becoming law. The program serves numerous functions, including to identify and understand landslide hazards and risks, reduce losses from landslides, protect communities at risk of landslide hazards, and improve communication and emergency preparedness.

47. Agricultural Problems

Agricultural problems due to climate change, abnormal weather, water depletion and the collapse of soil have become big problems in all parts of the world. Many are now focusing on ethics and family farming as a way to combat these issues.

48. Selective History

History is selective. What history books tell us about the past is not everything that happened, but what historians have selected. They cannot put in everything: choices have to be made. Choices must similarly be made about which aspects of the past should be formally taught to the next generation in the shape of school history lessons.

49. Shakespeare

A young man from a small provincial town— a man without independent wealth, without powerful family connections and without a university education— moved to London in the late 1580's and, in a remarkably short time, became the greatest play wright not of his age alone but of all time. How was this achievement of magnitude made? How did Shakespeare become Shakespeare?

50. Electricity Discoveries

The Royal Institution is an organization that has been around for 209 years. Many of the people that have worked here have been scientists themselves, including Michael Faraday. He made the discoveries that made generating and using electricity much easier, making it possible for us all to switch on lights, cook our dinner, play games consoles much, much more.

51. Yellow

Yellow is considered as the most optimistic color. Yet surprisingly, people lose their tempers more often in yellow rooms and babies cry more in them. The reason may be that yellow is the hardest color for eyes to take in. So, it can be overpowering if overused.

52. Innovative Product

An innovative new product or service can give a firm a head start over its rivals, which can be difficult for a new entrant to overcome. If the new technology is also patented, then other firms cannot simply copy its design. It is legally protected.

53. Avi Loeb

"The situation is similar to a pregnant woman that has twin babies in her belly," says Avi Loeb of the Harvard- Smithsonian Center for Astrophysics. He's proposing the idea in a paper that's been accepted for publication in the Astrophysical Journal Letters.

54. Urban Forests

A community's urban forest is an extension of its pride and community spirit. Trees enhance community economic stability by attracting businesses and tourists as people tend to linger and shop longer along tree-lined streets. Apartments and offices in wooded areas rent more quickly and businesses leasing office spaces in developments with trees reported higher productivity and fewer absences.

55. Blue

While blue is one of the most popular colors, it is one of the least appetizing. Food researchers say that when humans searched for food, they learned to avoid toxic or spoiled objects, which were often blue, black, or purple. When food dyed, blue is served to study subjects, they lose appetite.

56. Telecommunication

Today, telecommunication is widespread and devices that assist the progress are common in many parts of the world. There is also a vast array of networks that connect these devices, including computer, telephone and cable networks. Computer communication across the Internet, such as e-mail and instant messaging, is just one of many examples of telecommunication.

57. Hunter-gatherer

The life of a hunter-gatherer is indeed, as Thomas Hobbes said of the state of nature, 'solitary, poor, nasty, brutish, and short'. In some respects, to be sure, wandering through the jungle bagging monkeys may be preferable to the hard slog of subsistence agriculture.

58. Australian Mining Industry

Australia has one of the world's most important mining industries. It is a major exporter of coal, iron ore, gold and copper and is self-sufficient in all minerals bar petroleum. Since the first discoveries, the coal in 1798, mineral production has risen every year. In the decade to 1992 it doubled.

59. Brain Efficiency

Efficiency is not your friend when it comes to cognitive growth. In order to keep our brains making new connections and keep them active, you need to keep moving on to another challenging activity as soon as you reach the point of mastery in the one you were engaging in.

60. Girls vs. Boys

Teen age girls are continuing to outperform boys in English while the gender gap in achievements in math and science has almost disappeared. The figures show that last year 80% of 14-year-old girls reached at least the expected level 5 in English, compared with 65% of boys. But in math, the girls are just 1% ahead of boys, while in science the difference is 2%.

61. Shrimp Farm

Shrimp farmers used to hold animals in nursery ponds for 30 to 60 days; now they try to move them into grow-out ponds in less than 30 days. This reduces stress on the animals and dramatically increases survivals in the grow-out ponds. Many farms that abandoned nursery ponds have gone back to them, and the results have been surprisingly positive. They're using the old, uncovered, earthen, nursery ponds.

62. Root Network

The networks of roots that plants use to absorb water and nutrients can encompass a space larger than the part of the plant visible above ground. The nature of these roots systems can help plants adapt to challenging environments such as deserts.

63. Elephant

The elephant is the largest living land mammal. During evolution, its skeleton has greatly altered from the usual mammal, designed for two main reasons. One is to cope with the great weight of huge grinding cheek teeth and elongated tusk, making the skull particularly massive. The other is to support the enormous bulk of such a huge body.

64. Global Changes

Globalization refers to a set of changes rather than a single change. Many of these changes are social, cultural and political rather than purely economic, and one of the main drivers in addition to the global market place is the communication revolution.

65. Man-made Light

Have you ever pictured a world without light? Just think how much we rely on man-made light sources in our lives. Without engineers, we wouldn't be able to live the way we do. No street lights, no TV, no computer display, no house lights. Engineers design and build all these things, and they also design, build and run the electricity systems that power all these light sources.

66. Baby Hearing

Most babies start developing their hearing while still in the womb, prompting some hopeful parents to play classical music to their pregnant bellies. Some research even suggests that infants are listening to adult speech as early as 10 weeks before birth, gathering the basic building blocks of their family's native tongue.

67. Actor Training

Training to become an actor is an intensive process which requires curiosity, courage and commitment. You'll learn how to prepare for rehearsal, how to rehearse and how to use independent and proactive processes to achieve your best work possible for stage and screen.

68. Fast Food

Hundreds of millions of American people eat fast food every day without giving it too much thought, unaware of the subtle and not so subtle ramifications of their purchases. They just grab their tray off the counter, find a table, take a seat, unwrap the paper, and dig in. The whole experience is transitory and soon forgotten.

69. Hybrid Rice

A new breed of rice that is a hybrid of an annual Asian rice and a perennial African rice could be a more sustainable option. The hybrid rice was able to produce grain for 8 consecutive harvests over four years at a yield comparable to the standard annual Asian rice, with much lower costs and labor.

70. Tutor

Your tutor helps you make the most of your time at university by giving you guidance and support along the way. All new students are allocated a personal tutor who will encourage you to get the most out of your course, direct you to other sources of support and help you achieve your goals.

71. Botanic Gardens

Botanic gardens are scientific and cultural institutions established to collect, study, exchange and display plants for research and for the education and enjoyment of the public. There are major botanic gardens in each capital city. Zoological parks and aquariums are primarily engaged in the breeding, preservation and display of native and exotic fauna in captivity.

72. Domestic Division

Traditional divisions of domestic work are understood to persist because of the strong association of the home with femininity and paid work with masculinity- to challenge who does what in the home is arguably tantamount to challenging what it is to be a woman or a man.

73. Child Psychology

Within this free course, you will be introduced briefly to the discipline of child psychology and to theories and approaches that have been developed to help us understand and support children's lives by focusing on the individual children. Psychologists can assess changes in their child's abilities over time, including their physical, cognitive, social, and emotional development.

74. Attendance

To some extent, attendance at cultural venues and events is influenced by a person's age and the composition of the household in which they live. For example, those people in households with dependent children were more likely to visit zoological parks and aquariums than people living in single person households.

75. Only Family

Imagine living all your life as the only family on your street. Then, one morning, you open the front door and discover houses all around you. You see neighbours tending their gardens and children walking to school. Where did all the people come from? What if the answer turned out to be that they had always been there— you just hadn't seen them?

76. Rates of Depression

At a time when stress levels are soaring, rates of depression are increasing and the gap between rich and poor is ever widening. We believe that giving can play a positive role in helping people to feel

connected to those around them and generate a sense of purpose and hope. When we give, we feel valued, useful and happy.

77. Most Important Things

Food is one of the most important things you'll ever buy. And yet most people never bother to think about their food and where it comes from. People spend a lot more time worrying about what kind of blue jeans to wear, what kind of video games to play, what kind of computers to buy.

78. Enough Fluid

Your body is nearly two-thirds water. And so, it is really important that you consume enough fluid to stay hydrated and healthy. If you don't get enough fluid, you may feel tired, get headaches, and not perform at your best.

79. Restaurant Location

The physical location of a restaurant in the competitive landscape of the city has long been known as a major factor in its likely success or failure. Once restaurants are established in such environments, they can do little about their location. All they can do is work to improve customer access to their premises.

80. William Shakespeare

Three hundred and eighty years after his death, William Shakespeare remains the central author of the English-speaking world; he is the most quoted poet and the most regularly produced playwright—and now among the most popular screen writers as well. Why is that, and who "is" he?

81. Volcano Behaviors

There were various explanations for volcano behavior before the structure of the earth mantle as a semisolid material was developed. For decades, awareness that compression and radioactive materials may be heat sources was discounted and volcanic action was often attributed to chemical reactions and a thin layer of molten rock near the surface.

82. Political Problems

The course considers the ways in which thinkers have responded to the particular political problems of their day and the ways in which they contribute to a broader conversation about human goods and needs, justice, democracy, and the proper relationship of the individual to the state.

83. Russia

Long isolated from Western Europe, Russia grew up without participating in the development like the Reformation that many Russians taking pride in their unique culture find dubious value. Russia is, as a result, the most unusual member of the European family, if indeed it is European at all. The question is still open to debate, particularly among Russians themselves.

84. High-protein Diet

A 10-week muscle-building and dietary program involving 50 middle-aged adults found no evidence that eating a high-protein diet increased strength or muscle mass more than consuming a moderate amount of protein while training. The intervention involved a standard strength-training protocol with sessions three times per week. None of the participants had previous weightlifting experience.

85. Summerhill School

Founded in 1921 by A.S. Neill, the Summerhill School is known for its unique approach to education. At Summerhill, students have the freedom to choose their own activities and are encouraged to participate in the decision-making process. This student-centered approach promotes self-expression, creativity, and personal development.

86. Adult Coral

Recent research suggests that adult fragments of a coral species exhibit improved tolerance to bleaching and a faster recovery when exposed to symbionts that have evolved to withstand higher temperatures. Interestingly, the study also found that the treatment with these heat-evolved symbionts did not negatively impact the coral's growth.

87. Happy Sounds

Research published in the journal of Neuroscience suggests that happy sounds, such as laughter, are infectious. When people hear these sounds, their brains activate the premotor cortical region, which prepares facial muscles to move. This may explain why laughter and other happy sounds can spread so easily from person to person.

88. Positive Parenting

Positive parenting practices have been linked to improved child outcomes in a range of areas, including academic achievement, mental health, and social skills. Positive parenting involves establishing clear rules and boundaries, providing emotional support and encouragement, and fostering open communication with children.

89. Disaster Preparedness Program

A comprehensive disaster preparedness program is being launched to enhance community resilience and response capabilities. The program includes initiatives to educate communities about potential hazards, develop emergency response plans, and improve communication systems for timely warnings and alerts during emergencies. The initiative also focuses on developing disaster-resistant infrastructure and promoting sustainable land use practices to reduce the impact of disasters on communities.

90. Federal Reserve

The Federal Reserve is not funded by Congress. Instead, it's funded by the interest earned on securities it buys, plus fees it receives for services it provides to banking institutions, including check

clearing and fund transferring. All net earnings of the Federal Reserve Banks are transferred to the U.S. Treasury.

91. Medicare

Medicare was created in 1965 as a safety net health insurance program for older Americans. All Americans over 65 years old qualify for Medicare health coverage regardless of pre-existing conditions, and Medicare covers a significant portion of the costs of doctor's office visits, treatments and surgeries, and prescription medications, although Medicare recipients also pay annual premiums and out-of-pocket costs.

92. Monkeypox

Countries that are members of the United Nations are obligated to report cases of unusual diseases that have the potential to become global health threats. In May 2022, more than a dozen countries in Europe, the Americas and other regions of the world that had never before had cases of monkey pox started to report cases occurring within their borders.

93. IPOs

IPOs give the company's initial investors a chance to make a return that justifies the risk they took in backing it early on. Their own shares stand to grow in value as they become worth the price that they're trading on the stock market. And the legions of investors who buy shares in the newly-public company stand to watch their stake rise quickly in value as well.

94. Sushi

The origins of sushi can be traced back to ancient China, where the preservation of fish was a necessity. During the second century A.D., the Chinese began fermenting fish by wrapping it in rice and allowing it to ferment overtime. The rice was discarded, and the fish was consumed. Sushi made its way to Japan in the 8th century, introduced by Buddhist monks who used fermentation techniques to preserve fish.

95. Phone Hygiene

It's been estimated that people touch their phone hundreds, if not thousands, of times a day. And while many of us wash our hands regularly after say, going to the bathroom, cooking, cleaning or gardening, we are much less likely to consider washing our hands after touching our phones. But given how disgusting and germ-infested phones can be, maybe it's time to think more about mobile phone hygiene.

96. Hurricane Harvey

The human toll of Hurricane Harvey is staggering, with 68 direct deaths and 35 indirect deaths attributed to the storm. The loss of life is a sobering reminder of the destructive power of such natural disasters. But beyond the lives lost, the impact on those who survived the storm cannot be overstated.

97. Tattoos

Tattoos are a popular form of self-expression and artistry, allowing individuals to adorn their bodies with meaningful symbols and designs. Whether you're considering getting your first tattoo or adding to your existing collection, it's important to choose a design with a significance that resonates with you.

98. Spider Silk

Spider silk is prized for its unrivalled strength and toughness. But figuring out a way to mass-produce it is no easy feat. Spiders cannot be put to work to pump out the fibers the way silk worms can: They're extremely territorial and inclined to eat their neighbors, and they refuse to keep at the task for long.

99. Live in Space

Humans evolved for and adapted to conditions on Earth. Move us off our planet, and we start to fail—physically and psychologically. The cancer risk from cosmic rays and the problems that human bodies experience in micro gravity could be deal-breakers on their own. Moreover, there may not be a viable economic case for sustaining a presence on another world.

100. Kidney Transplant

People seeking a kidney transplant often have to wait years for a donor organ to become available—and many die before ever receiving one. Xenotransplantation, in which organs from one species are transplanted into another, could alleviate the organ shortage. But bridging millions of years of evolutionary divergence between two species is at all orders, so for decades organ xenotransplantation was largely impractical.

101. Protein Songs

In recent years, scientists have created music based on the structure of proteins as a creative way to better popularize science to the general public, but the resulting songs haven't always been pleasant to the ear. In a new study, researchers use the style of existing music genres to guide the structure of protein song to make it more musical.

102. Large Marimo

Large marimo are now thought to be exclusively found in Lake Akan, and as seen from the data, even there they have become threatened. Therefore, it is necessary to propose measures to protect marimo from global warming, such as utilizing the cooler river water that flows into the marimo colony.

103. Golden Goose

Successful economies and cultures are built on trust, but a number of high-profile data breaches and privacy intrusions have caused anxiety for consumers. New legislation may be needed to bolster confidence in the digital marketplace, but we've got to be thoughtful about it. So, we don't strangle the golden goose that we call the Internet.

104. Acknowledgement

We acknowledge all the information and memory notes provided by students. We also acknowledge open source from various books and journal articles. All questions and answers are prepared and annotated by the Australian Institute of Language. All rights reserved, not for any commercial purposes, but for personal study only.

105. Search for Meaning

Much of what people do today disguises a desperate search for meaning, the result of the crisis of belief that has become a major problem of the western world. On the one hand, the elites and their high culture suffer a loss of confidence, and aimless consumerism is widespread; on the other, powerful new myths arise, as with sporting heroes.

106. Fence

Fences are not just designed to keep people and animals out, but they also keep things in, like children. From a safety perspective, knowing your children are in a yard that is fenced offers solid peace of mind when it comes to their well-being. Fences are also great for keeping pets in a confined, controlled area.

107. Nature and Cities

To thrive, cities must lean on nature. That means having open green spaces and interconnected waterways to prevent floods, green roofs and walls that reduce temperatures and produce food, and forests planted as green belts to oxygenate urban areas and regenerate ecosystems.

108. Line Engraving

Line engraving on metal, which, to a great extent, was a development of the goldsmith's craft of ornamenting armor and precious metals, did not emerge as a print-making technique until well into the 15th century. Copper, the metal mainly used for engraving, was expensive, and engraving itself was laborious and took a long time.

109. Side Effects

Where there are effects, there are often side effects. The car is a boon to mobility, but can lead to obesity, deaths and pollution. Burning fossil fuel may keep economies going but wreck the climate in the long run. In a similar way, there are side effects to information technology in education setting - from childcare to the classroom to the lecture hall and beyond.

110. High Quality of Life

In spite of the spectacularly high quality of life for the vast majority of the people who live in the European Union, its inhabitants seem obsessed by the region's relative decline in the world. Slow economic growth rates and high unemployment have reinforced the impression that Europe is unhappy with today and unsure of tomorrow.

111. Travel

As the plane soared above the clouds, memories of the journey flooded the traveler's mind. The sights, sounds, and scents of distant lands lingered like treasures in their heart. Each adventure was a lesson learned, an experience that enriched their soul and broadened their perspective. It was a reminder that in travel, we discover not just new places but also ourselves.

112. Heat and Humidity

Scientists have identified the maximum mix of heat and humidity a human body can survive. Even a healthy young person will die after enduring six hours of 35-degree Celsius warmth when coupled with 100 percent humidity, but new research shows that threshold could be significantly lower.

113. Melting Pot Theory

The melting pot theory of multiculturalism assumes that various immigrant groups will tend to “melt together,” abandoning their individual cultures and eventually becoming fully assimilated into the predominant society. Typically used to describe the assimilation of immigrants, this theory is often illustrated by the metaphor of a foundry’s smelting pots in which the elements iron and carbon are melted together to create a single, stronger metal—steel.

114. COVID-19

Currently in South Australia, the majority of people who have a positive COVID-nineteen test result will stay in the community in their home or in supervised or supported care. A team of health professionals will carry out an assessment and ask you a series of questions, including identifying your symptoms, your medical history and if you can safely isolate away from others.

115. Emerald

Emerald is defined by its green color. To be an emerald, a specimen must have a distinctly green color that falls in the range from bluish green to green to slightly yellowish green. To be an emerald, the specimen must also have a rich color. Stones with weak saturation or light tone should be called "green beryl." If it is greenish yellow it is "heliodor."

REPEAT SENTENCES

1. Items can be found on the bottom floor of the library.
2. If you have any questions in the exam, please raise your hands.
3. There are various approaches for plagiarism across different university departments.
4. It is argued that students can learn more by collaborating rather than as individuals.
5. Scientists are always asking the government for more money.
6. Higher education means higher pay and more opportunities you will get.
7. One of the salient features of academic writing is the tendency to use formal words.
8. A study skill seminar is on for the students who require assistance.
9. It is argued that students can learn more by collaborating rather than as individuals.
10. Car park permits can be obtained at the student service center.
11. Your abstract should contain the empirical evidence of your research.
12. We often ask our students to get access to all sorts of services.
13. The vehicle he travelled in collided with a train unexpectedly.
14. Answers to these crucial scientific questions are approaching closer for researchers.
15. Physiology delves into the complex inner and outer structures of the body.
16. High parental expectations often lead to student stress and anxiety.
17. Research indicates a potential link between family size and academic success.
18. For timetable inquiries this term, consult the tutor without delay.
19. At all times, students are expected to adhere to laboratory safety rules.
20. Library journals must remain on premises; students cannot remove them.
21. Academic writing is characterized by its frequent use of formal vocabulary.
22. Among various heating and cooling systems, central heating proves to be superior.
23. The investigation aims to find the stand of the problem.
24. There are various approaches for plagiarism across different university departments.
25. The competency of language in the assignment is to use more formal words.
26. Control systems in manufacturing require a high level of accuracy.
27. Students from various backgrounds can achieve a variety of qualifications.
28. The students are supposed to assemble in the seminar hall before the announcement.
29. The buildings looked extraordinarily beautiful in the brilliant sunshine of the day.
30. Cities are ranked based on the important measure of quality of life.
31. Physics explores the properties and interactions of matter and energy.

32. The agricultural industry of that country receives significant financial support from the government.
33. Utilize online materials before attending the upcoming lecture sessions.
34. Alternatively, you have the option to receive your academic grades through email
35. My fascination has long been drawn to the fields of biology and physics.
36. I aim to significantly cut down my house cleaning time.
37. It's unfortunate some language teachers graduate without native speaker training.
38. Despite using English, I failed to communicate with him effectively.
39. Our company's software saw significant changes over the past year.
40. Late books at the library will have a daily fine added.
41. Prepare your PowerPoint presentation for the crucial team meeting tomorrow.
42. If you have questions about exam techniques, ask the student welfare officer.
43. Making workplace changes can often bring significant challenges to the forefront.
44. Friends help with feelings, but how much depends on each person.
45. We should not disrupt the delicate balance and harmony of nature.
46. At a significant moment, the global population reached a major milestone.
47. Population growth has been slow, gradually rising over many centuries.
48. Being tired often leads to car accidents on the road.
49. Learning how to persuade people is helpful for talking to others.
50. We consistently receive high grades in all of our classes without fail.
51. Too much irrelevant information made me feel overwhelmed and confused.
52. Getting interpreters may not be easy within this department's resources.
53. Anatomy examines both internal and external structures of the human body.
54. Effective management is key to establishing and maintaining intellectual leadership.
55. Unfortunately, my schedule conflicts with several interesting economics classes this semester.
56. Thank you for representing our department at this event; we appreciate it.
57. Overeating can lead to numerous health problems and should be avoided.
58. Remember to sign the attendance sheet before leaving the lecture hall.
59. Research shows that early detection methods are very important and significant.
60. Information on the internet becomes more reliable as time passes and influences it.
61. Early findings are interesting but not very important in our study.
62. Companies may have quite different break and lunchtime rules and regulations.
63. Companies primarily exist to earn money and create profits for themselves.
64. We must let clients know about upcoming price increases in advance.

65. This academic year, students need to complete several short coursework assignments.
66. Guidance on presentation focus will be more specific this time.
67. New York City's ethnic diversity is renowned and celebrated widely.
68. The medical facility is conveniently situated near North Street's supermarket.
69. Students must comply with the community standards set by the institution.
70. International students may receive help finding housing around the university.
71. This chapter of the tale recounts my father's life story.
72. Ensure your seminar papers are copied and, in the library, early.
73. Next year, the cost to attend college is going to go up a lot.
74. You can pick from lots of different clubs and groups at school.
75. When you write, always say where you got your information from.
76. Charles used to take the bus, but now his friend drives him.
77. Starting a business or selling things abroad begins by talking to a bank.
78. Companies that help with exports give advice and help with money.
79. Pick three or four courses you like before you sign up.
80. This office is closely linked to your scholarly pursuits on campus.
81. There are on-going problems with over-consumption of junk food.
82. Here in this area, you shouldn't find any huge social problems nowadays.
83. Some people suggest a levy on junk food to discourage its consumption.
84. My parents didn't have a good education so they were determined that I would.
85. The financial report for the last quarter will be available this afternoon.
86. The supplementary energy sources are needed after exertion.
87. It's my opinion that technological advances will begin to slow.
88. The students' union governs the use of the sports center.
89. Politicians and marketing professionals have a good understanding of persuasion.
90. Some of the worst accidents in history have been linked to sleep deprivation.
91. Spending quality time together is important for most families but unfortunately, it's not always possible to do so.
92. But we have confirmed the dates and planned the optional extra visits.
93. By the way, if you want more information about any of the trips, have a look in the student newspaper.
94. In the last few weeks, we've been looking at various aspects of the social history of London.
95. During the next few centuries, London became one of the most powerful and prosperous cities in Europe.

96. This brought about the tremendous change in the environment, with the sea level rising and creeping steadily inland.
97. There are several reasons for this lack of interest in corporate crime, compared with other types of crime.
98. I can't afford to take a gap year unless I can get a job and save up.
99. The knife and fork should be placed next to the spoon at the edge of the table.
100. People with an active lifestyle are less likely to die early or to have a major illness.
101. I've got a tutorial in an hour and I haven't had any time to prepare for it.
102. The laboratory is deemed too dangerous for children, but there is one child that visits it daily.
103. The government is expected to lay an additional tax on cars by the end of the year.
104. It's a difficult one. If you start prohibiting some research, where do you draw the line?
105. It took us over an hour to reach the crest of the hill in the countryside.
106. I was driving along the road when a kid suddenly stepped out in front of me.
107. Economy of scale is the increase in efficiency that occurs when more goods are produced.
108. Overcrowding and poor sanitary conditions affected the daily lives of the majority of the population.
109. Most people dislike advertisements but appear to be influenced by them anyway.
110. Our future well-being depends on action we take now.
111. It gradually spread to many places throughout Europe by the 1600s.
112. Social robots can show different facial expressions and emotions.
113. The feeling of disgust is related to the stomach.
114. Larger numbers of city residents mean greater car ownership.
115. He's showing his work at the London Gallery of Art.
116. There are no places left in the morning tutorial.
117. This short line on the painting represents life.
118. Let's all meet at four, not three as we agreed before.
119. Please sign your name here if you want to join the social club.
120. I'd like to get a place of my own as soon as I can.
121. In eighteen eighty, cycling became a major phenomenon in Europe.
122. In the end, it's what people like to eat that's important.
123. Scientists still aren't sure why we need to sleep.
124. The bus will depart from outside of the building in 5 minutes.
125. The painter is well-known for his abstract period.
126. Please note that the college laboratories will be closed for cleaning next week.

127. He would yearn for the chance to learn from the well-known artist.
128. Bridge design is guided by cost considerations and functional requirements.
129. Electric vehicles signify the future of transportation, promising an eco-friendlier world.
130. You'll find the economics section on the second floor of the library.
131. All students on engineering courses spent one year working on the raw experience.
132. The conference is predicted to draw greater numbers than last year.
133. His looks conveyed subtle signs of a deeper, underlying interest.
134. I can fix the issue but was told to keep it from you.
135. I can't make the lecture due to my scheduled doctor's appointment.
136. There are many abstract paintings here.
137. Another is an electric bus with an open bottom for cars to drive under.
138. It's important that humans dispose of their waste in appropriate ways.
139. Basically, marketing is about making people want to buy.
140. I found Additional quotations are essential to enhance the credibility of my argument.
141. I aim to significantly cut down my house cleaning time.
142. Email me if you can't finish the task on time.
143. I apologize for my tardiness in attending today's lecture session.
144. Government regulations, although strict, have yielded unexpected positive results.
145. The campus theater hosts plays, concerts, and other performances.
146. The key findings seem to contradict our initial hypothesis.
147. Open access means making research publications freely available online.
148. The bird was fluttering its wings during the rain.
149. Will those happy days ever be forgotten by you?
150. Children will adjust their behavior to meet parental approval.
151. The swimming pool is drained and cleaned every winter.
152. They passed a law against cutting off power supplies.
153. The railroad workers have asked for a wage increase.
154. He ranked high among the engineers in chemical technology.
155. The accounting office checked each worker's salary every month.
156. The department determines whether or not the candidates pass.
157. The small island's economy is largely dependent upon tourism.
158. The law will compel employers to provide health insurance.
159. Our country has registered a protest over foreign intervention.
160. The mountain was sharply defined against the eastern sky.

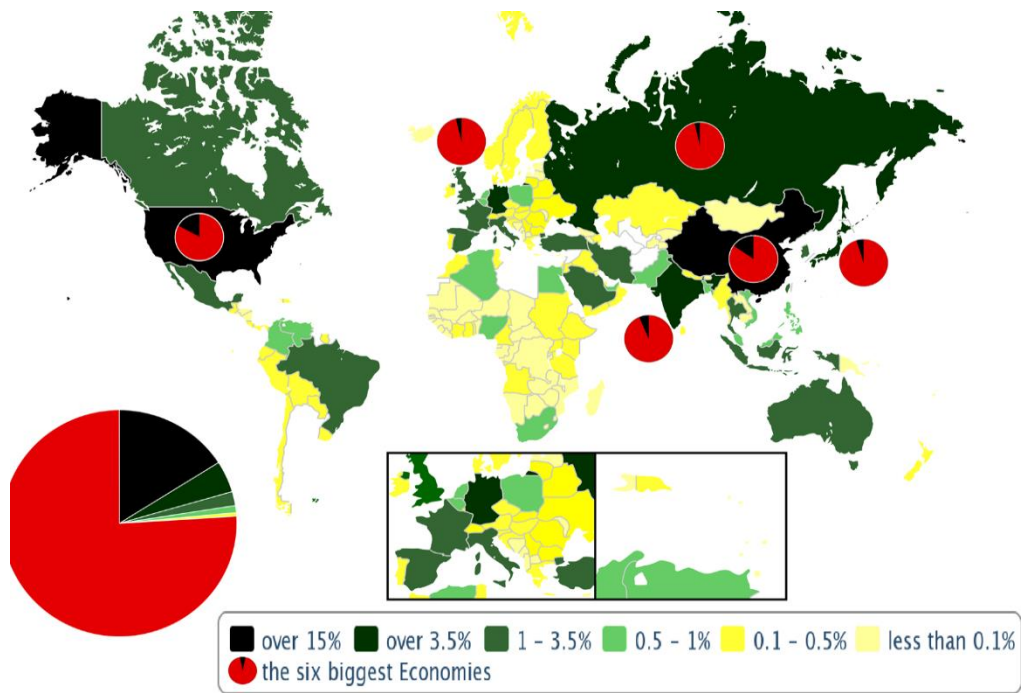
161. She clenched her fists to stop herself from trembling.
162. The latest scientific discoveries cast doubt on earlier theories.
163. Common symptoms of diabetes are weight loss and fatigue.
164. Language games are usually intended to encourage students' interaction.
165. Rain, snow and hail are collectively known as precipitation.
166. The study demonstrates the link between poverty and malnutrition.
167. Everything was shaded in his wet and dark room.
168. Key business partners are often intertwined in expense accounts.
169. The ship successfully underwent sea trials in coastal waters.
170. Number the beakers and put them away.
171. This session is not supported by documentation.
172. It seems that language appears from nowhere.
173. The program depends entirely on private funding.
174. There are many different religions across the world.
175. Most of the student advisors are extremely helpful.
176. We have very little actual documentation of it.
177. We are considering all candidates' backgrounds and identities.
178. His understanding of the language is very rudimentary.
179. Newspapers today are entirely free from government control.
180. He could not feel motivated when studying mathematics.
181. The government patented the device to the freshman.
182. He finished his speech with a quotation from Shakespeare.
183. The doctor has been accused of violating professional ethics.
184. The new machine reduced labour costs to almost zero.
185. Doctors are unanimous about the dangers of this drug.
186. She made some highly complementary remarks about her school.
187. The new job will provide you with invaluable experience.
188. The job would suit someone with a business background.
189. The teacher asked the group to commence the task.
190. We need to strengthen our skills to think creatively.
191. Books in the reserve section are only loaned for a limited time.
192. Students generally succeed in biology with little difficulty each year.
193. Don't drink any alcohol even if you drive carefully.
194. Today's lecture on modern American literature has been cancelled.

195. The atmosphere is composed by oxygen and nitrogen gases.
196. We have three distinctive libraries which are nationally acclaimed.
197. The light can be seen as waves or particles.
198. Experience would be an advantage for this managerial role.
199. Fear of essay writing stems from not learning it properly.
200. Some health staff believe elderly people can't grasp new things.
201. Your thesis passed after the committee talked with your advisor.
202. Persist through life's obstacles; don't give up when challenges emerge.
203. The program operates solely on financial contributions from private benefactors.
204. These changes frequently lead to tough situations for individuals involved.
205. Email usage raises the risk of miscommunication significantly in correspondence.
206. Streetlights ensure nighttime safety for walking outdoors without any worries.
207. The verdict depends on which side convinces the jury more.
208. Pioneers of new ideas often face similar struggles and hardships.
209. Test the new hypothesis through a controlled experiment for verification.
210. His work stands out as groundbreaking and innovative to everyone.
211. The university marked Earth Day by planting trees to celebrate.
212. Wait a moment; I'll arrive shortly, your patience is appreciated.
213. His research fascinates due to his natural curiosity and inquisitiveness.
214. The urban impoverished often resided in incredibly tight living spaces.
215. Invasions by Germanic and Danish tribes greatly affected the country.
216. Parents should model and instill values in their children diligently.
217. Current solutions highlight the symbolic aspects inherent in human nature.
218. Few students meet the criteria to receive housing benefit entitlements.
219. New beaches appeared, and strange sea animals came onto them.
220. In changing times, consideration for staff strain is absolutely crucial.
221. The tutoring session will be much slower due to this.
222. Increasing urban populations correlate with higher rates of car ownership.
223. Ultimately, people's food preferences matter the most in the end.
224. Social robots can express various emotions through facial expressions effectively.
225. Its gradual spread across Europe took place over many centuries.
226. A potential solution involves implementing on-demand electric car rental systems.
227. Researchers hold differing opinions on the reasons for our dreams.
228. Consumers generally trust friends more than commercial advertisements for guidance.

229. Typically, ads aim to raise awareness, not provide comprehensive information.
230. Ample affordable off-campus housing options are readily available to students.
231. Utilizing visual aids enhances presentation quality and maintains audience interest.
232. Students seeking extensions should approach their respective tutors for permission.
233. The required amount of sleep remains constant as adults age.
234. Advertisements must appeal to a diverse audience to be effective.
235. During conversations, tone, expressions, and gestures play roles in understanding.
236. The university offers scholarships to help students with financial need.
237. He performed the experiment correctly and has obtained accurate results.
238. His lecture was illustrated with slides taken during an expedition.
239. A long disquisition can take students several months to complete.
240. A liberal arts curriculum can be very broad and diverse.
241. Please note, submission deadlines are only negotiable in exceptional circumstances.
242. The bibliography needs to be removed prior to the publication.
243. The higher rates have been a hindrance to economic recovery.
244. The new policy shifted the emphasis away from fighting inflation.
245. The organisms were forced to adapt in order to survive.
246. He has carried out extensive research into renewable energy sources.
247. Experts have made some assumptions based on students' study habits.
248. Earthquakes happen when two tectonic plates collide with each other.
249. Certain foods seem to contain more potent allergens than others.
250. daily I found the author's stance on immigration to be ambiguous and unclear.
251. Our immune systems are killing billions of germs every second.
252. The book deals with the interface between accountancy and law.
253. After ten hours' hard work, weariness pervaded his whole body.
254. A lot of people who have up until now been spending money in having a good time now need to be more careful with their money.



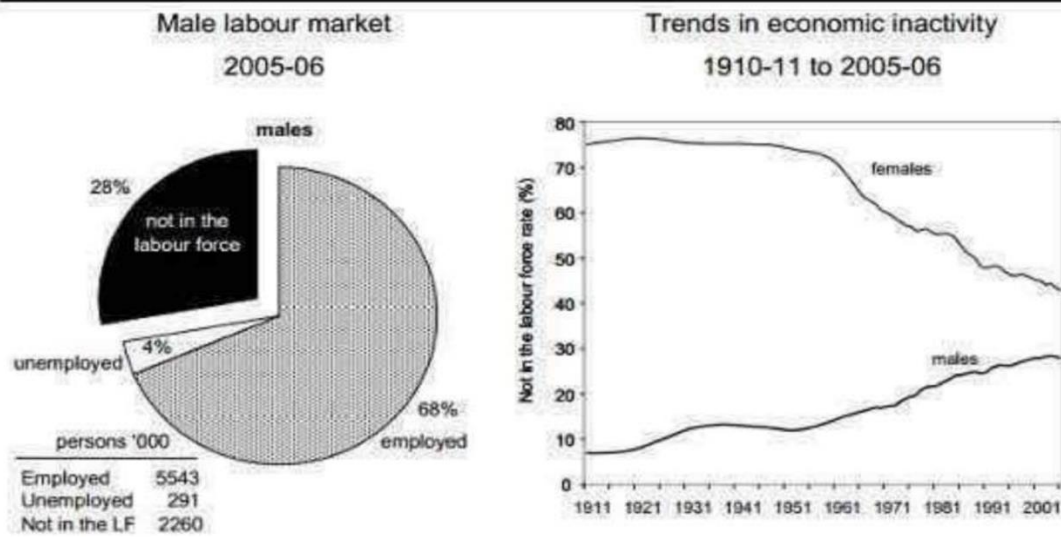
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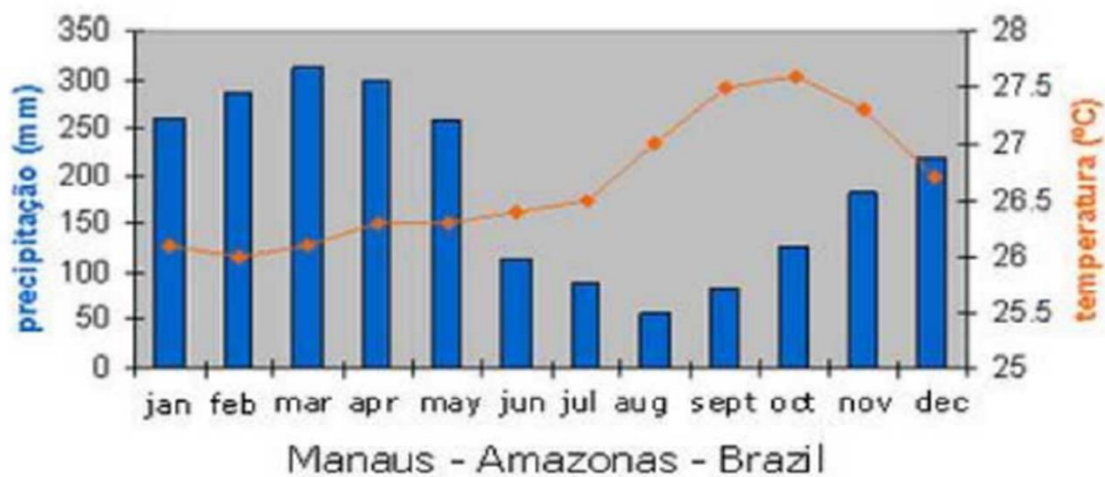
Share of World GDP PPP 2011, World Bank, ICP

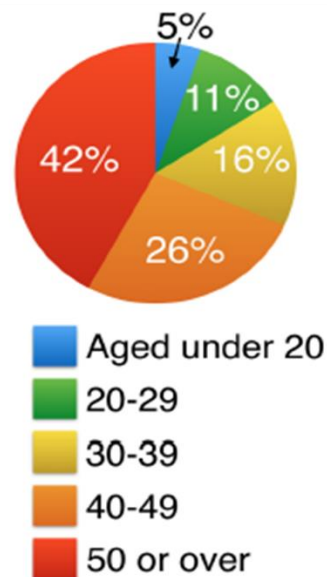
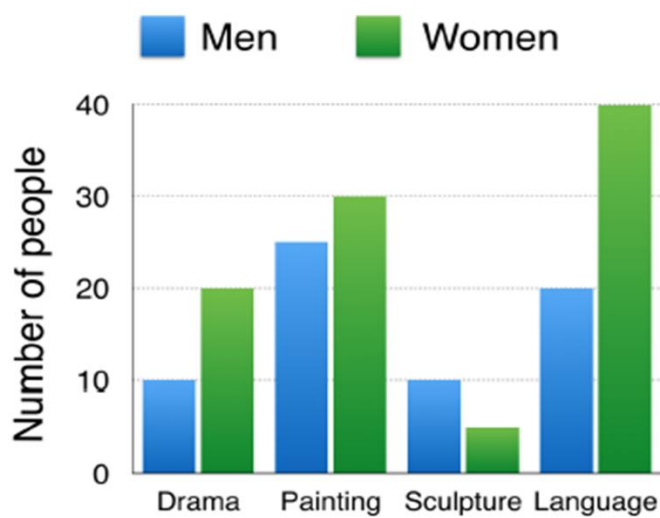
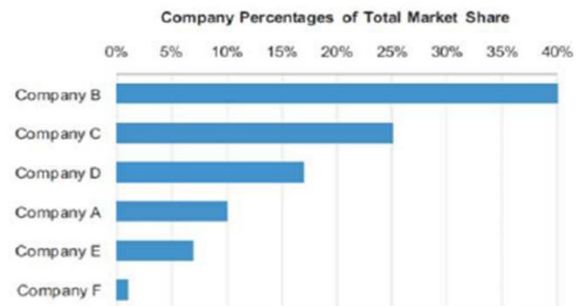
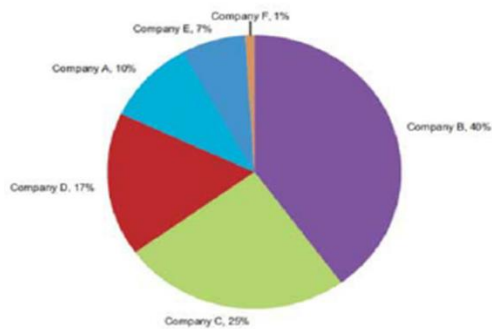


Figure 1 Many men are outside the labour force

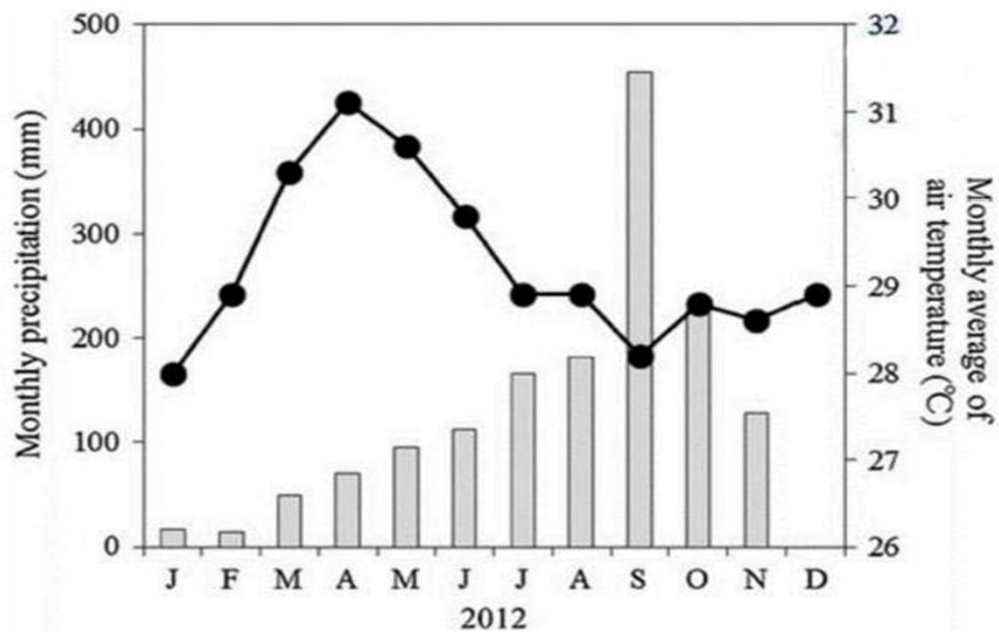


Temperature and Precipitation Chart (Yearly)

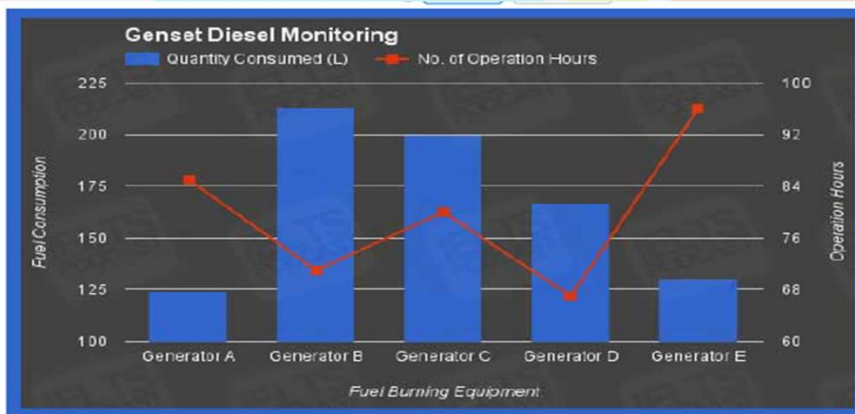
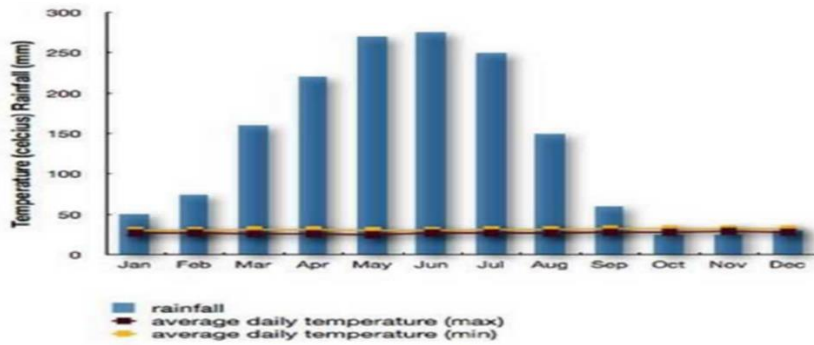
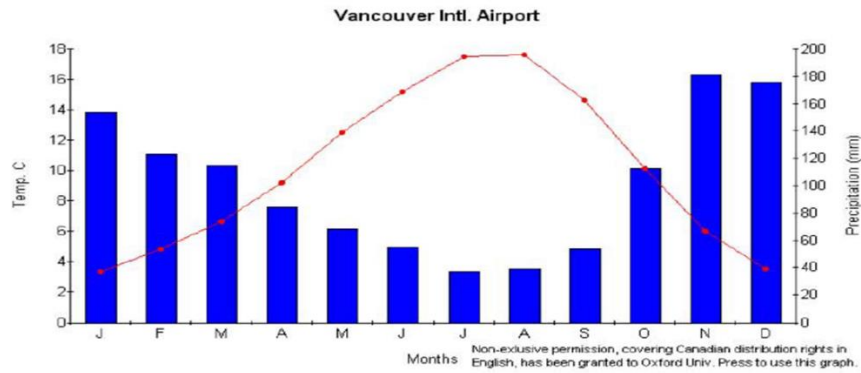




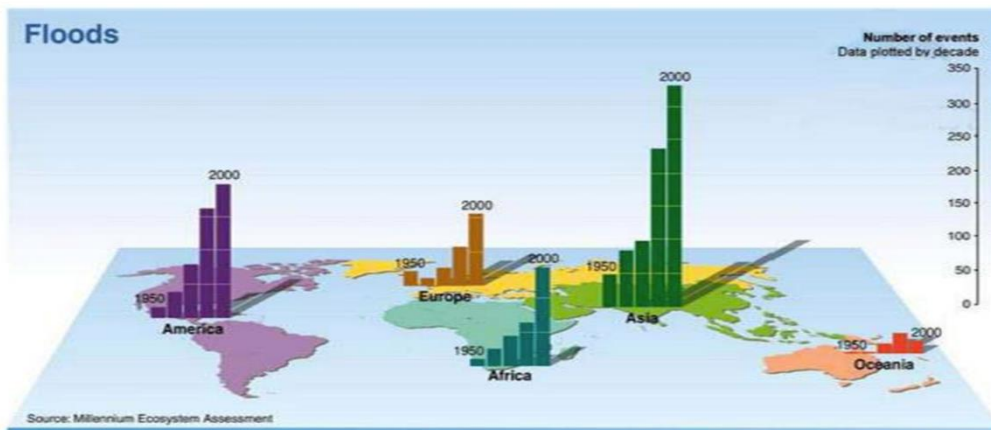
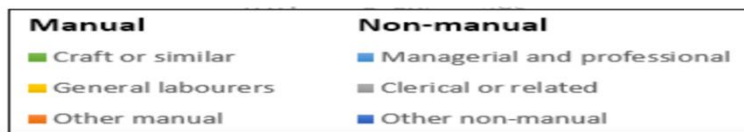
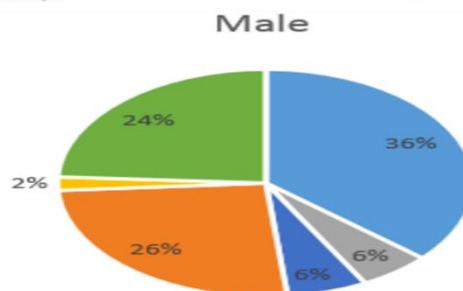
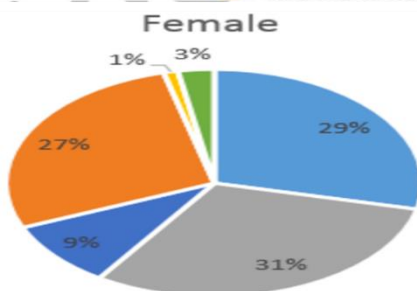
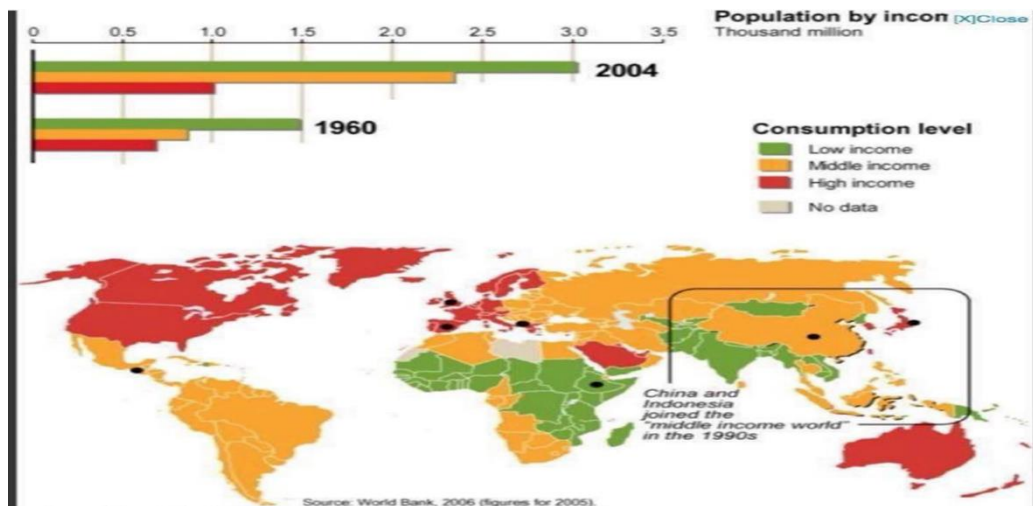
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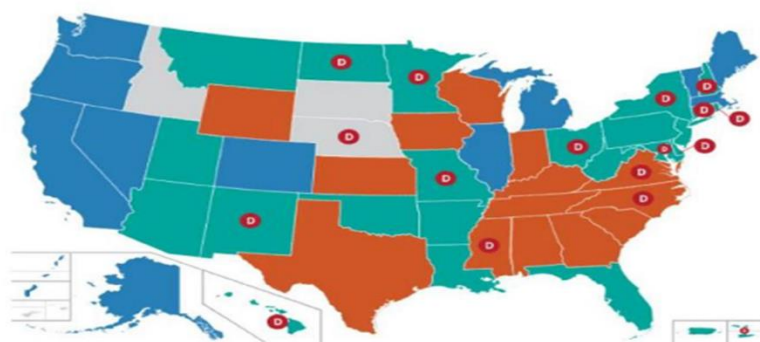


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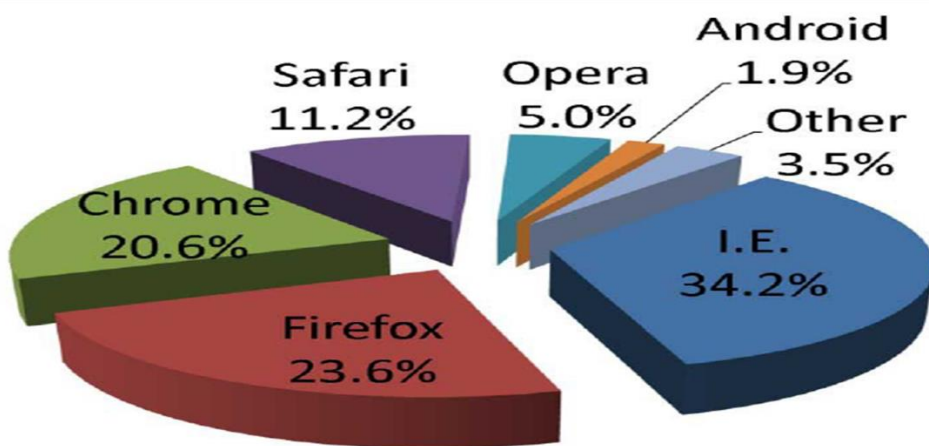
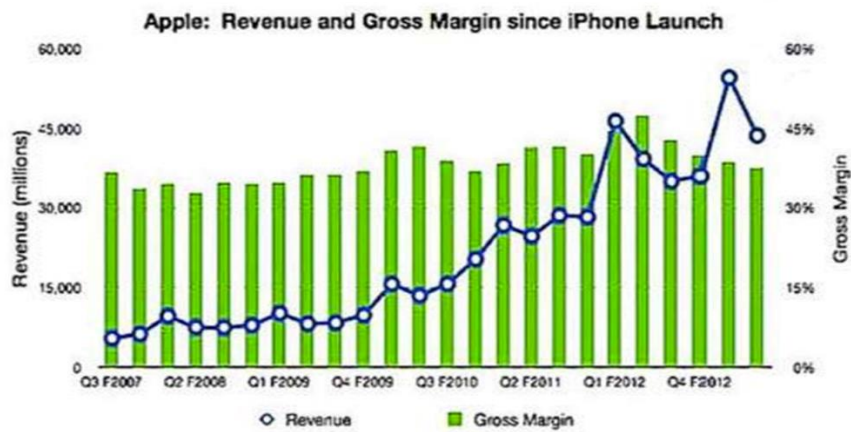
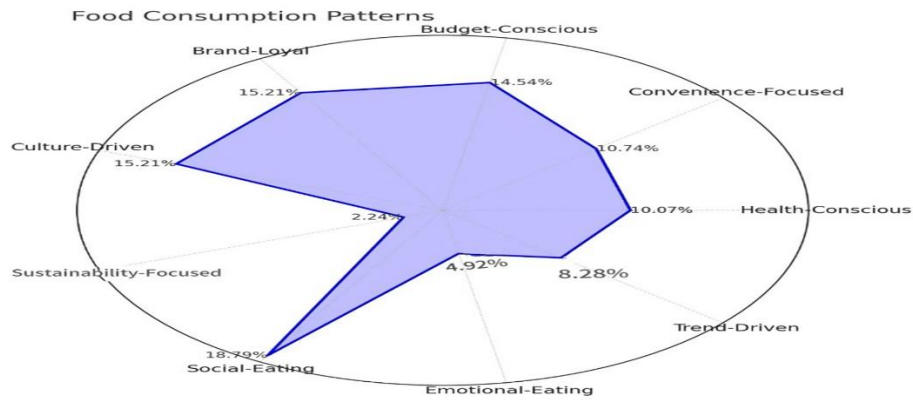
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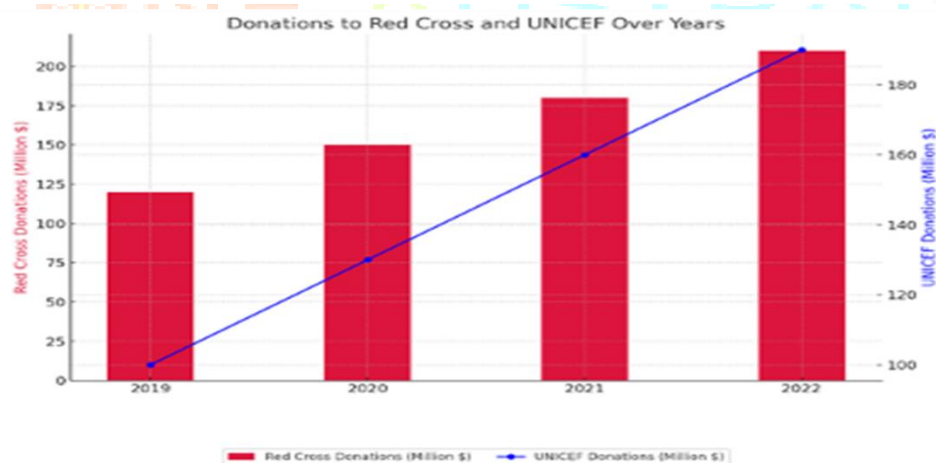
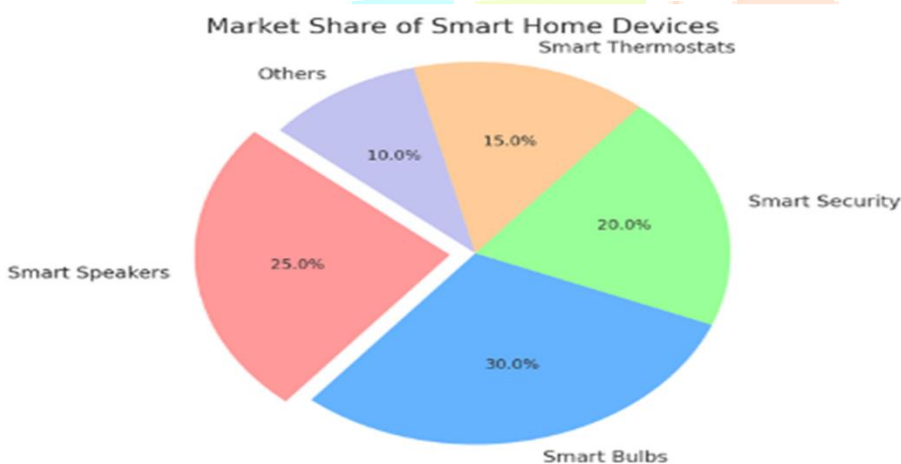
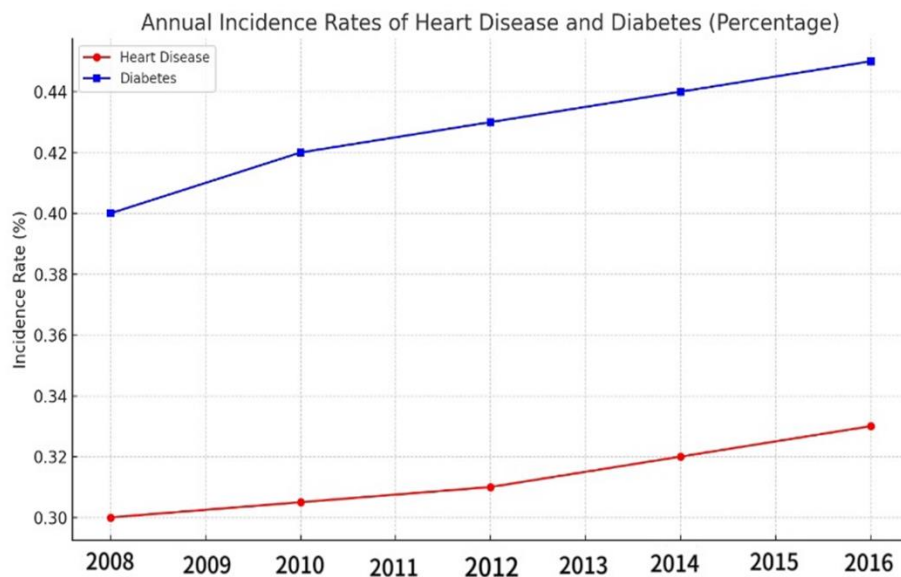
Cannabis Legality Status By State



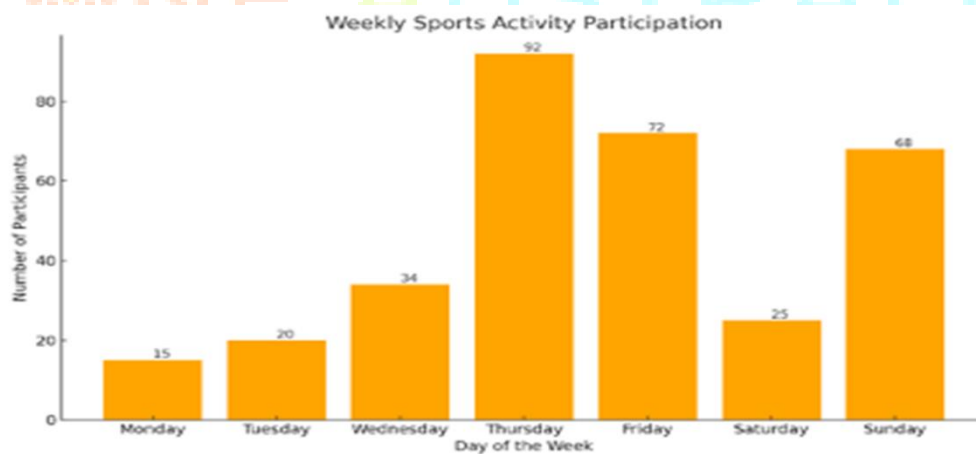
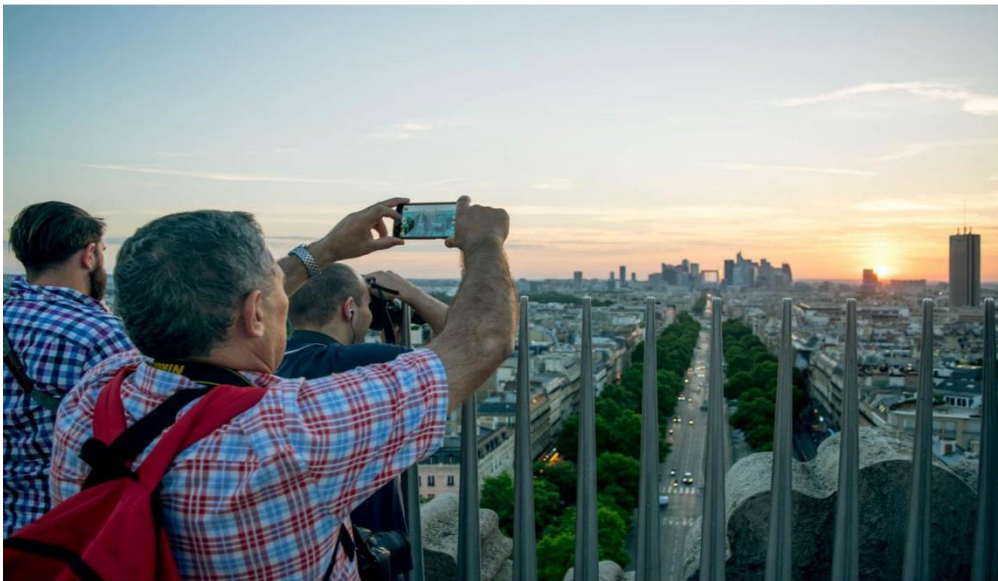
Age Group	Total Population			Total Inactive Population			Inactivity Rate		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
15-19	65,324	64,293	129,617	24,090	28,111	52,201	36.9	43.7	40.3
20-24	41,406	48,801	90,207	7,389	9,824	17,213	17.8	20.1	19.1
25-29	29,458	44,037	73,494	1,267	3,925	5,192	4.3	8.9	7.1
30-34	30,353	37,160	67,513	518	2,322	2,840	1.7	6.2	4.2
35-39	26,030	33,041	59,070	201	1,663	1,863	0.8	5.0	3.2
40-44	27,588	28,053	55,642	276	1,412	1,688	1.0	5.0	3.0
45-49	22,626	19,316	41,942	204	1,432	1,637	0.9	7.4	3.9
50-54	16,061	13,872	29,933	195	2,007	2,202	1.2	14.5	7.4
55-59	11,251	7,992	19,244	588	1,601	2,190	5.2	20.0	11.4
60-64	9,162	8,102	17,264	868	2,044	2,912	9.5	25.2	16.9
65+	15,417	15,645	31,063	3,634	8,383	12,017	23.6	53.6	38.7
Total	294,675	320,312	614,987	39,230	62,725	101,955	13.3	19.6	16.6



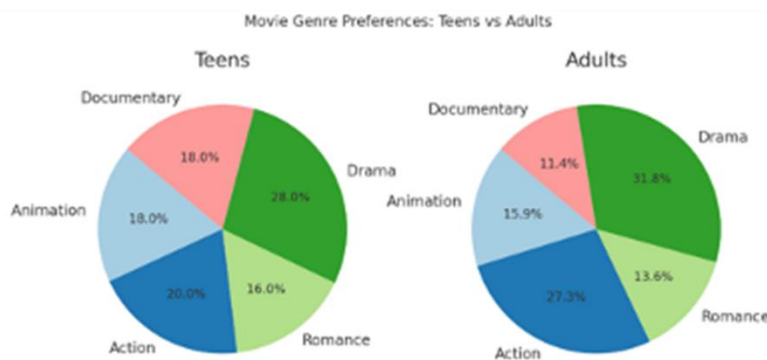
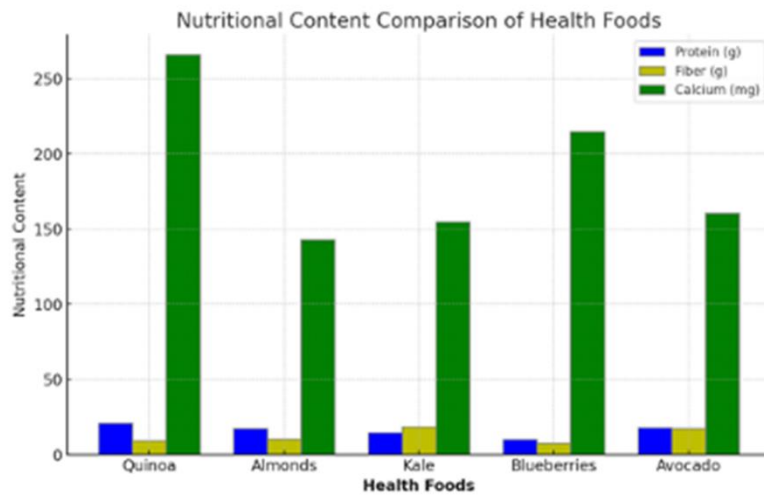




IA



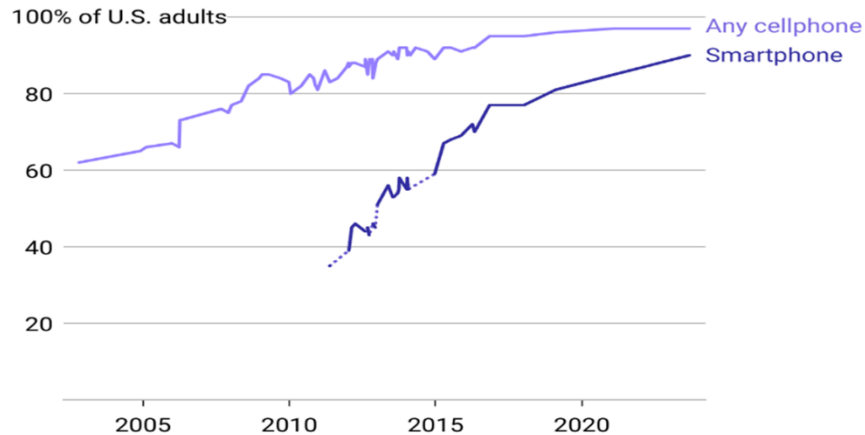
A



The rise of the smartphone

Most cellphone owners in the U.S. have smartphones.

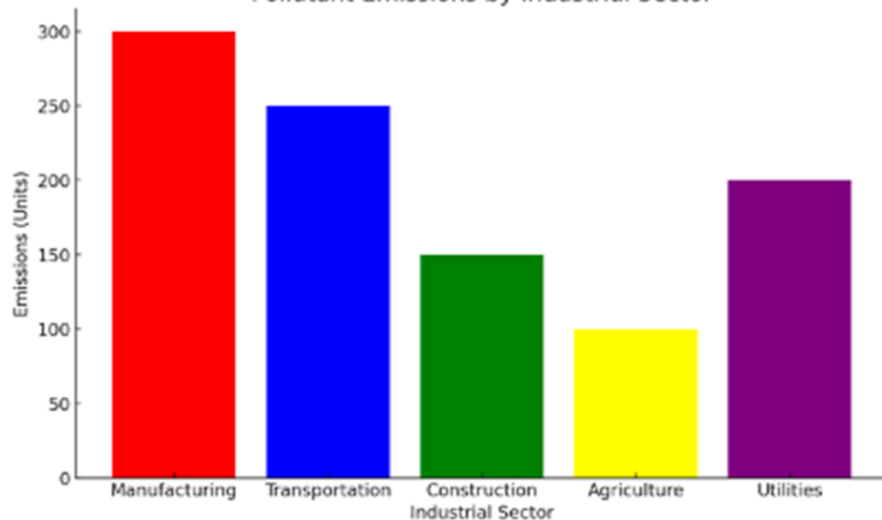
100% of U.S. adults



Note: Before 2023, surveys were conducted over phone. 2023 responses were collected via web and mail.

Data source: Pew Research Center

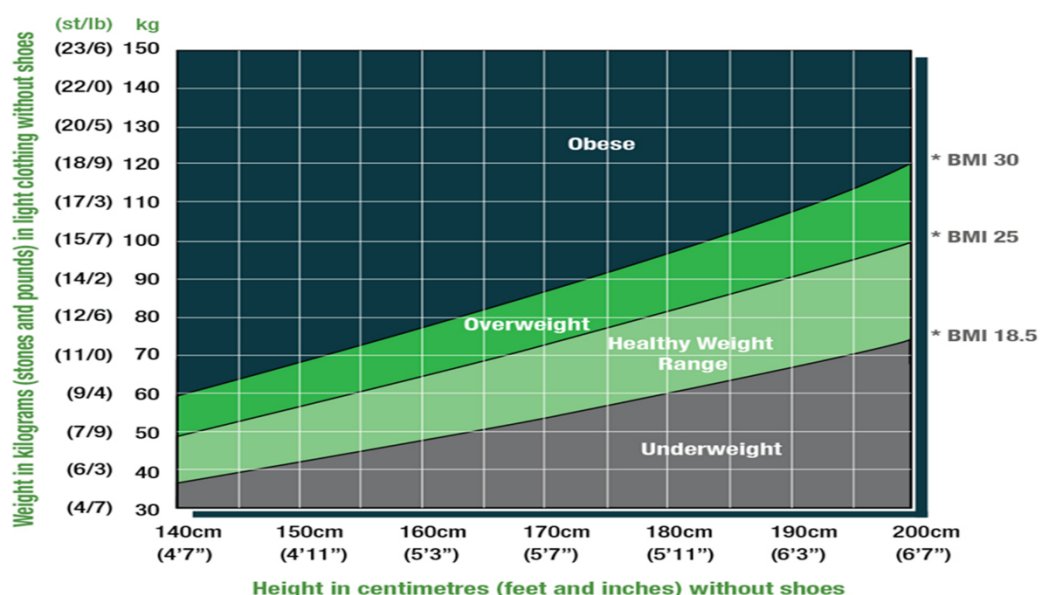
Pollutant Emissions by Industrial Sector



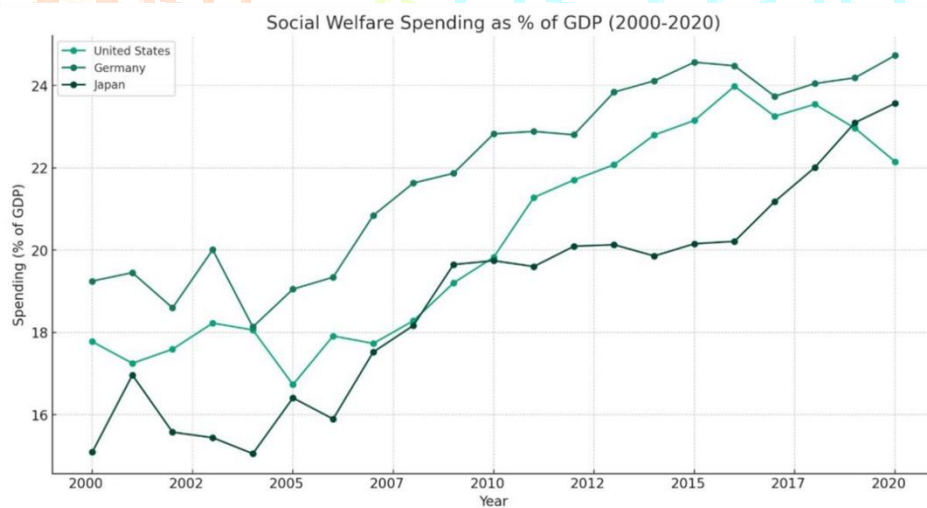
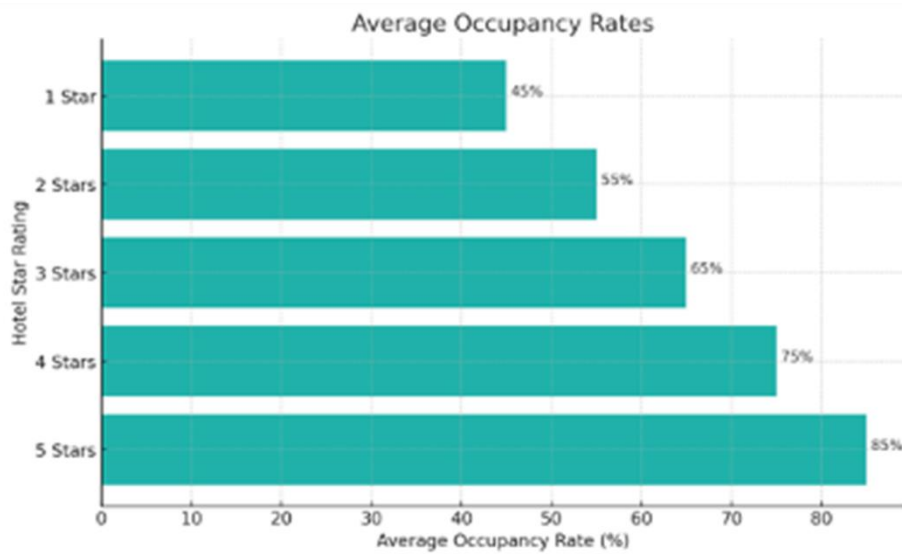
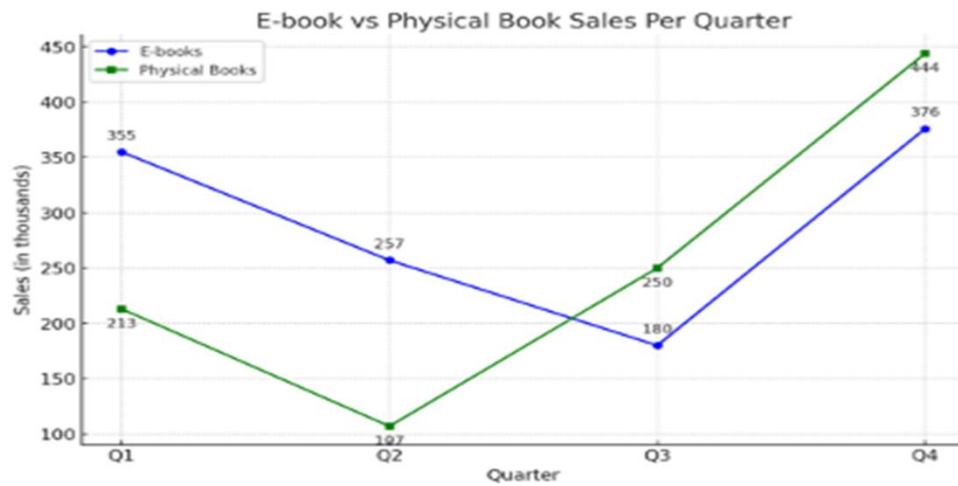
Fall Postsecondary Enrollment (Undergraduate & Graduate) from 1976 to 2020, Selected Years

Year	%Racial or Ethnic Minority Enrollment	%Black or African American Enrollment
2020	43.9%	12.5%
2019	43.4%	12.6%
2018	42.5%	12.7%
2017	41.8%	12.9%
2016	41.0%	13.0%
2015	40.4%	13.4%
2014	39.8%	13.8%
2010	36.1%	14.5%

Aim for a healthy weight: BMI chart for adults

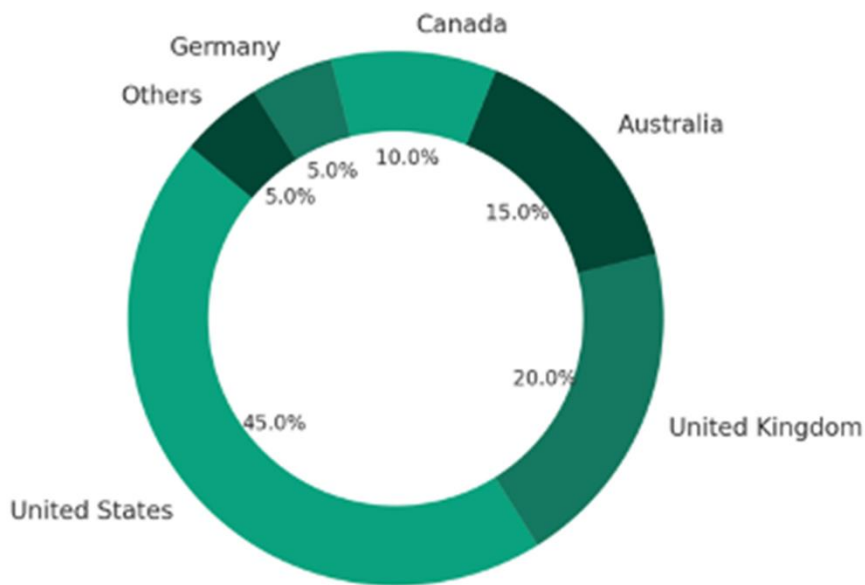


Source: Adapted from the Australian Dietary Guidelines (2013).

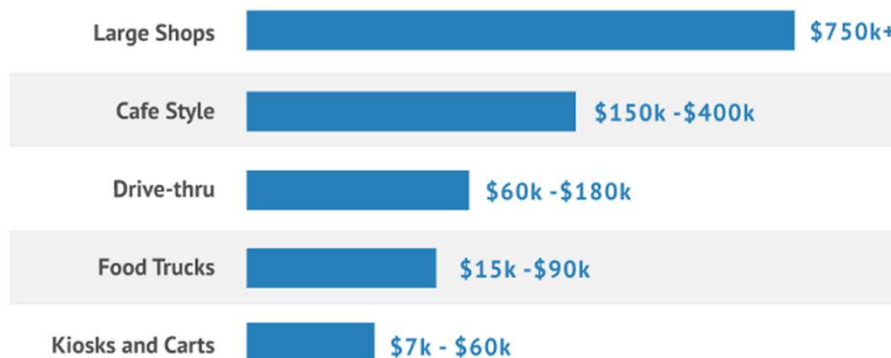


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Distribution of International Students Across Countries

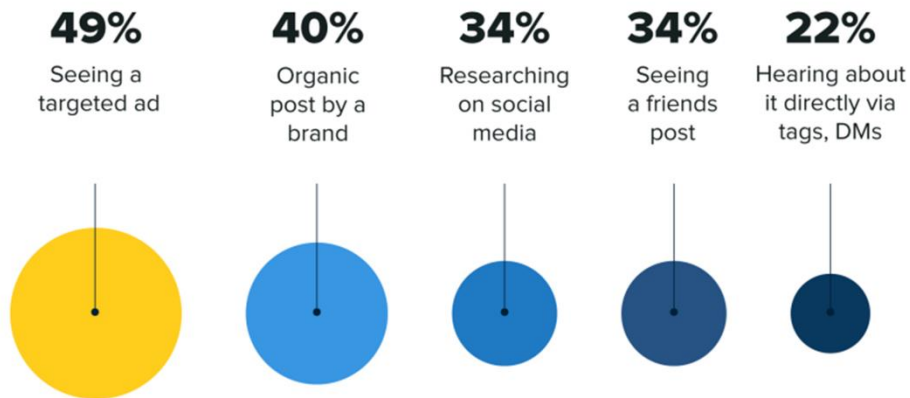


Average Startup Cost For Coffee Shops



A

Common ways consumers are finding the perfect product

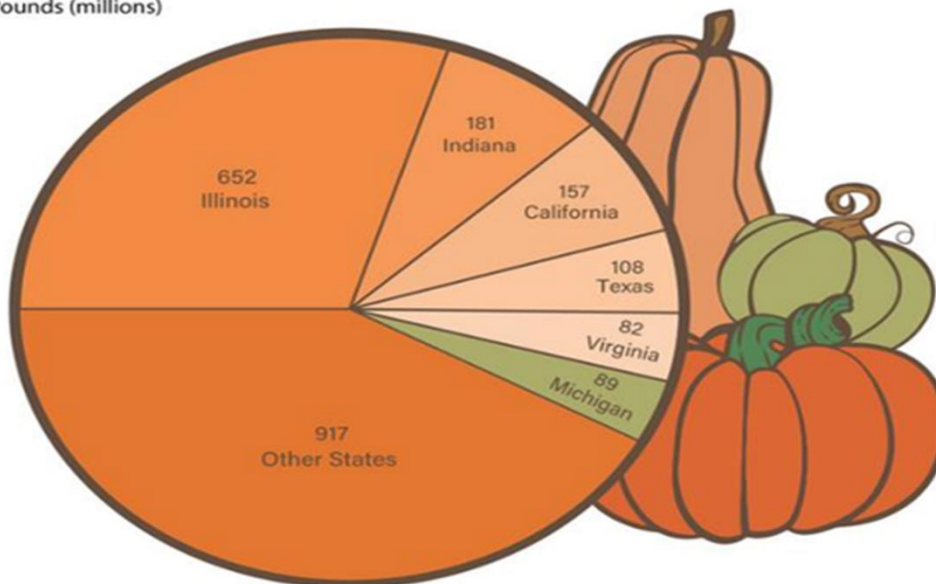


sproutsocial • Social Shopping in 2022

sproutsocial.com

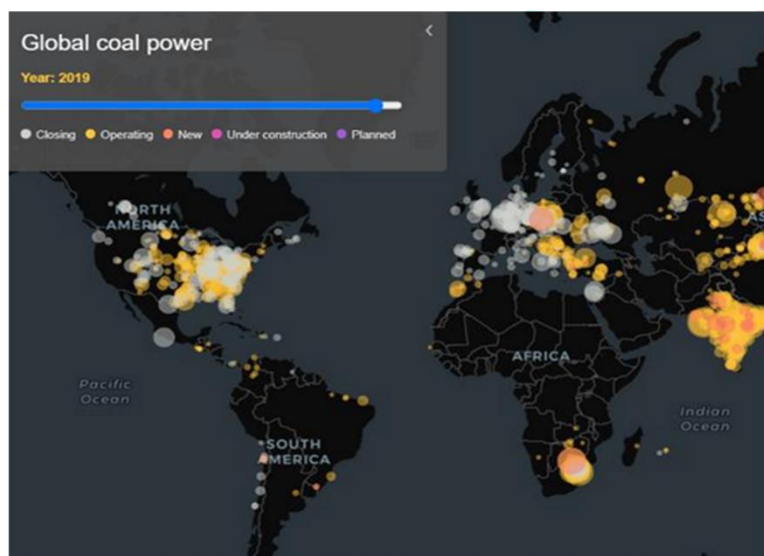
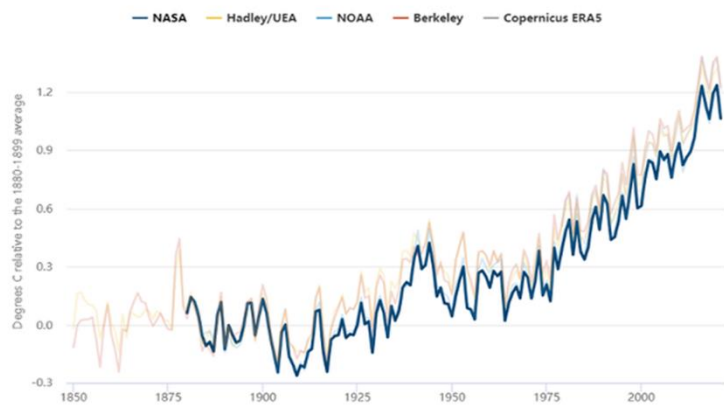
Pumpkin production by States, 2021

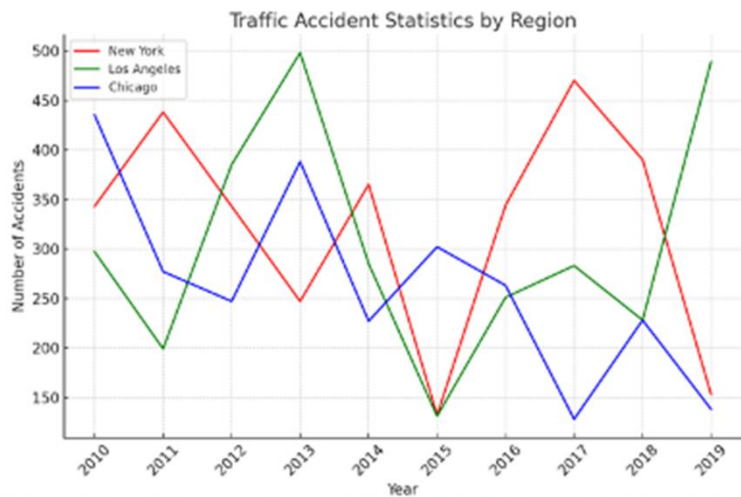
Pounds (millions)



U.S. total is 2,186 million pounds.

Global surface temperature records, 1850-2021

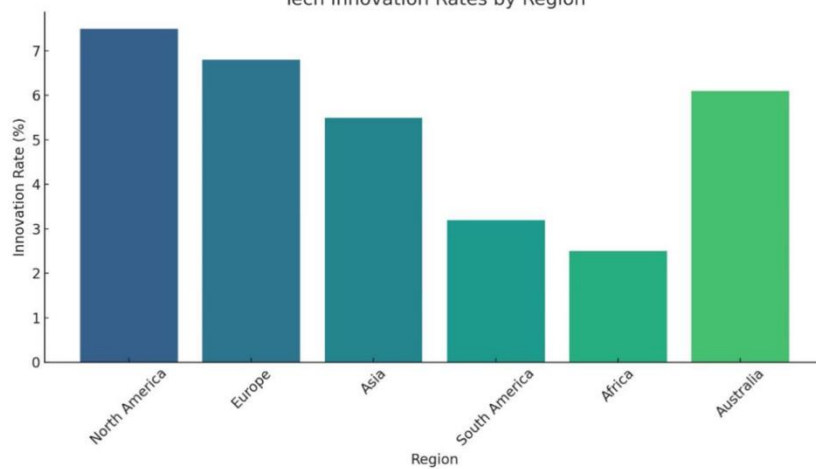




STRALIA



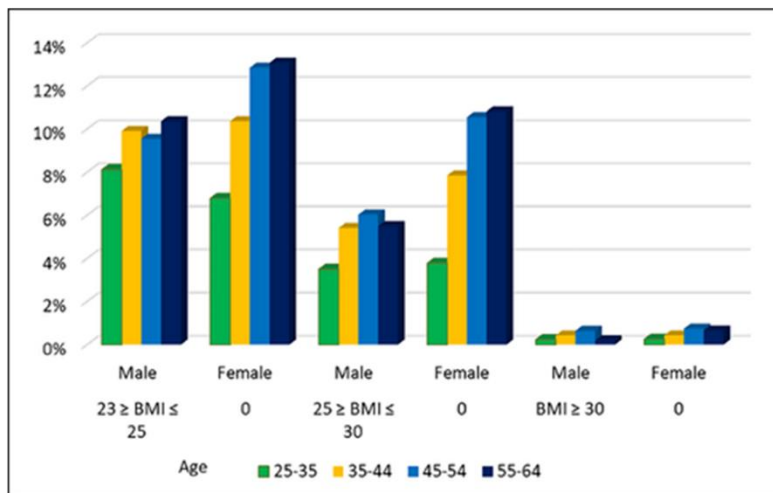
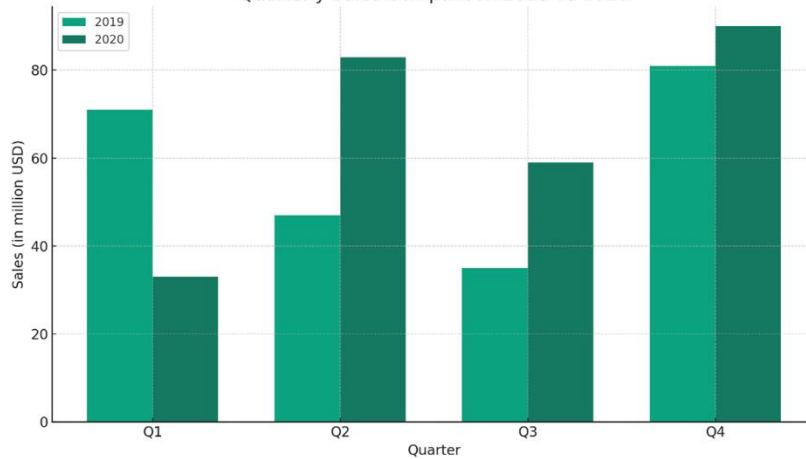
Tech Innovation Rates by Region



The biggest fires in California history

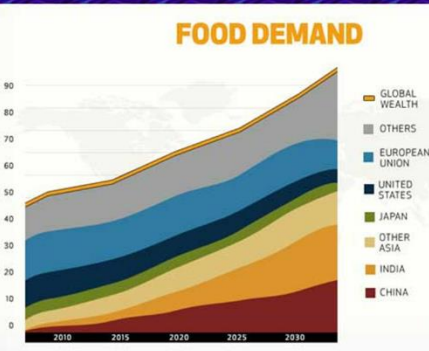
FIRE NAME	YEAR	DEATHS	ACREAGE
Mendocino Complex	2018	1	459K
Thomas	2017	2	282K
Cedar	2003	15	273K
Rush	2012	0	272K
Rim	2013	0	257K
Zaca	2007	0	240K
Carr	2018	8	230K
Matilija	1932	0	220K
Witch	2007	2	198K
Klamath Theater Complex	2008	2	192K
Marble Cone	1977	0	178K
Laguna	1970	5	175K
Day	2006	0	163K

Quarterly Sales Comparison 2019 vs 2020

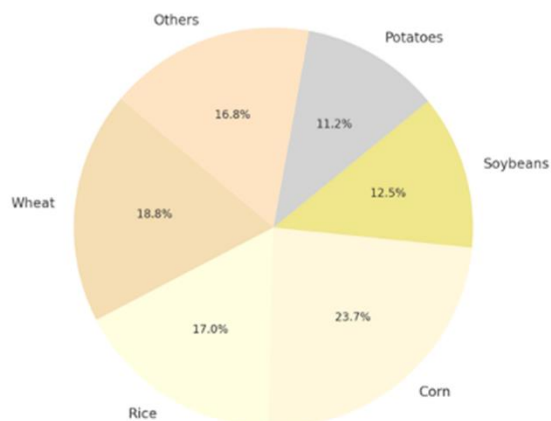


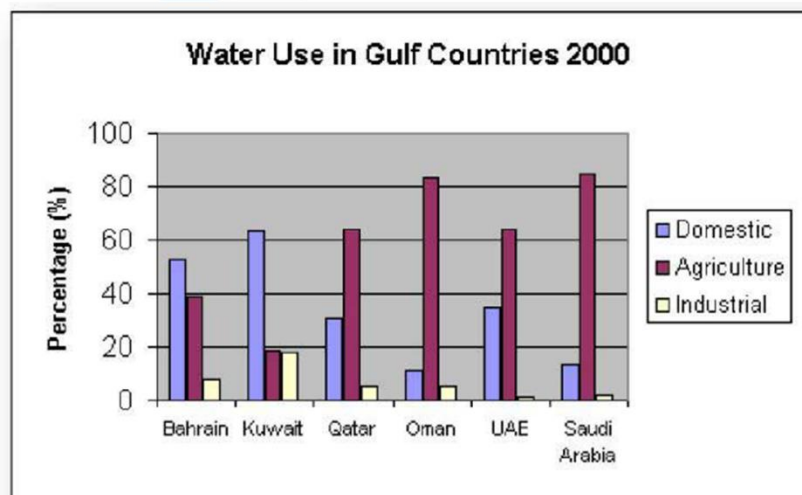
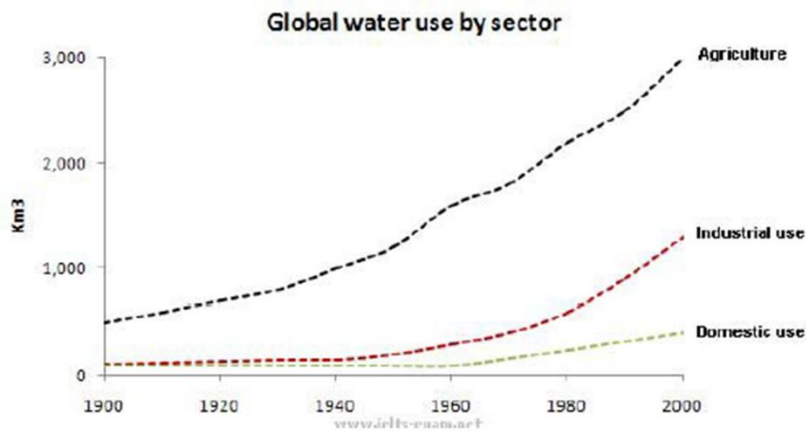


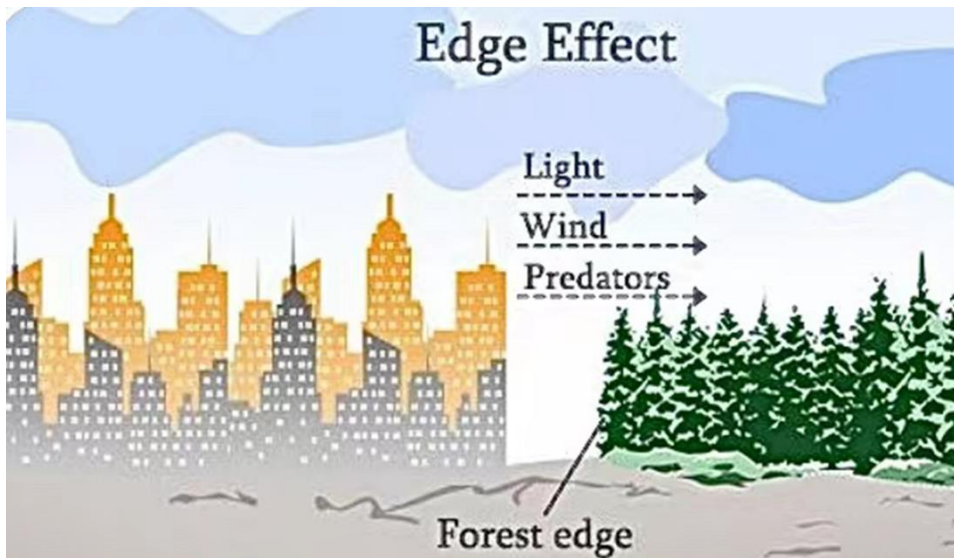
THE FUTURE OF FOOD



Annual Crop Production Distribution







Global annual temperature and CO2 levels, 1959–2016

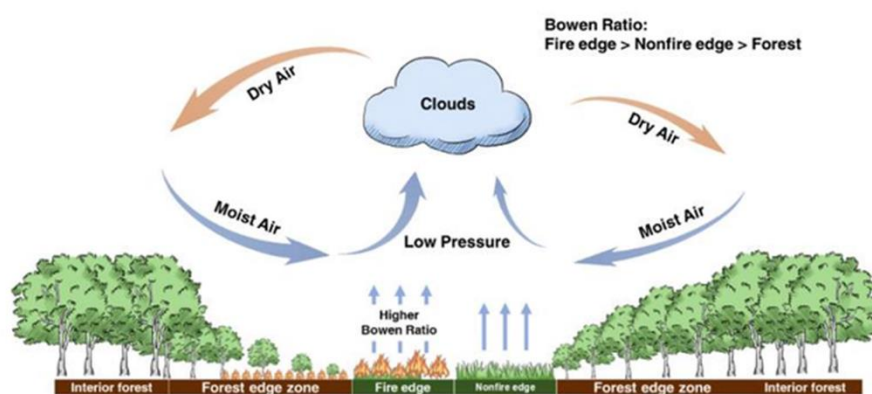
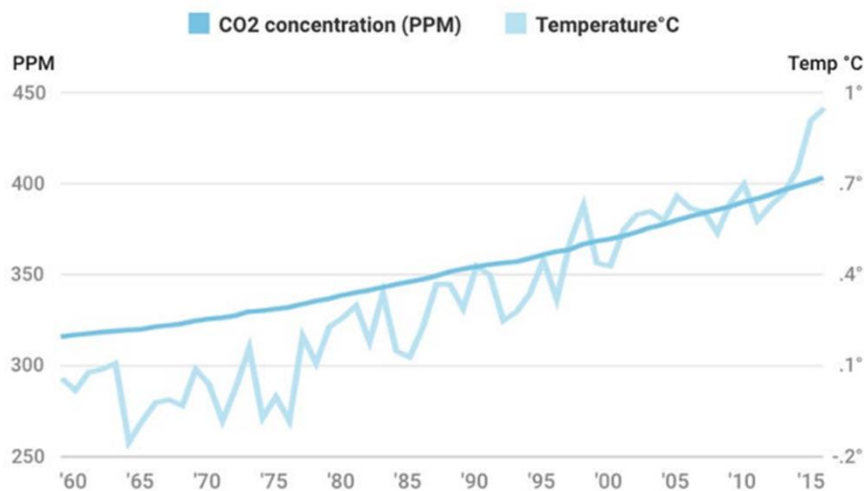
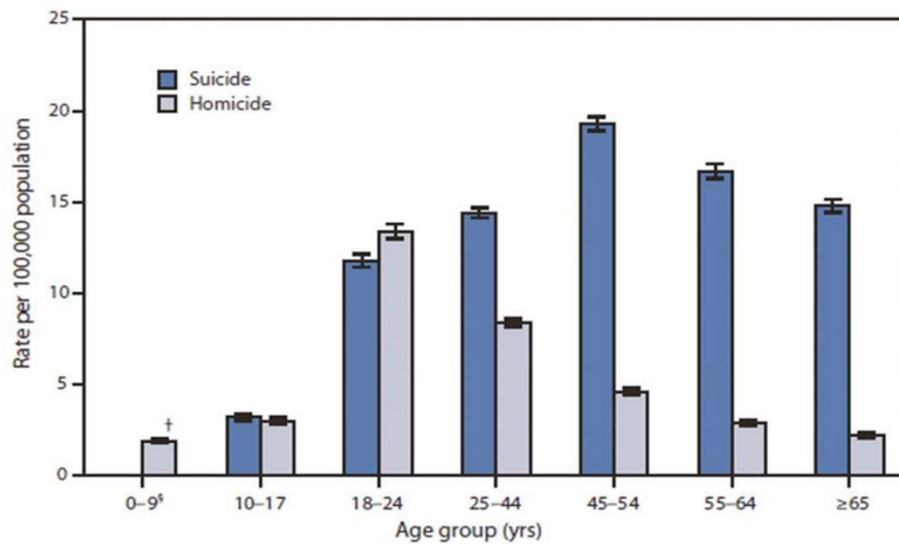
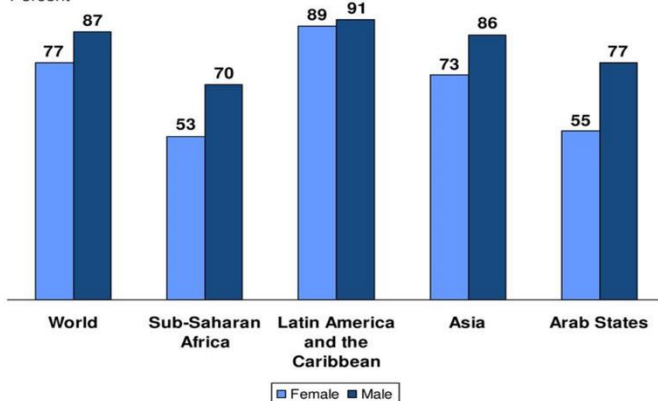


Figure 1 Schematic diagram of forest edge effect and its forest degradation mechanism



Adult Literacy, by Region

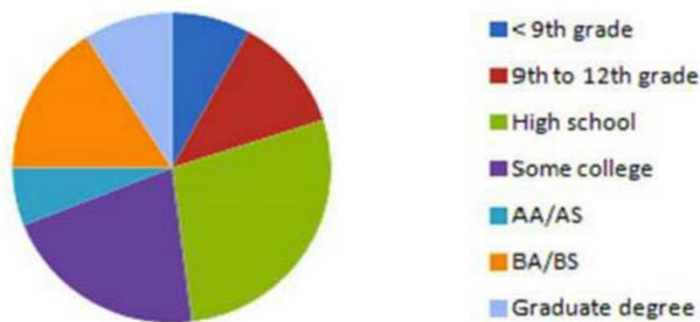
Literacy Rates, by Sex, 2000-2004
Percent



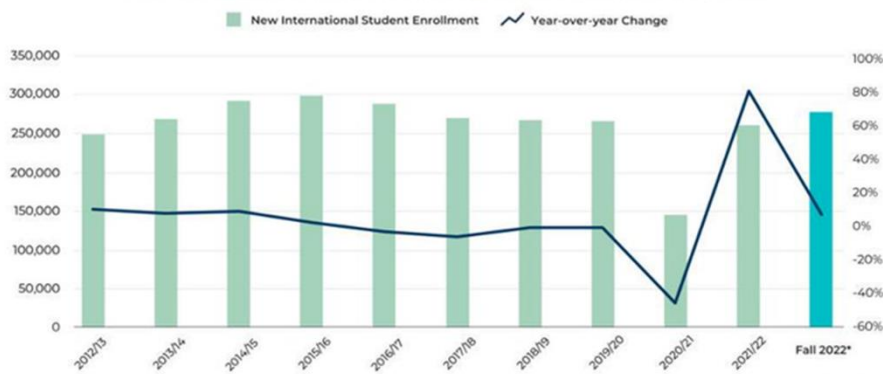
Source: UNESCO Institute for Statistics: accessed online at www.uis.unesco.org/TEMPLATE/html/Exceltables/education/Literacy_Regional_April2006.xls on May 21, 2006.
© 2006 Population Reference Bureau

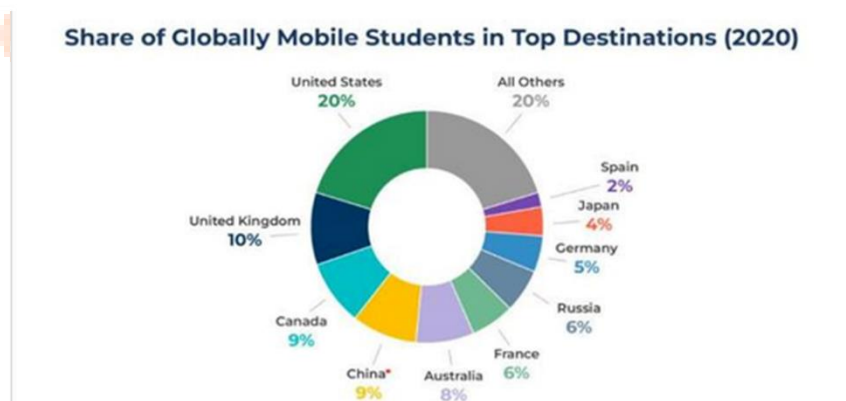
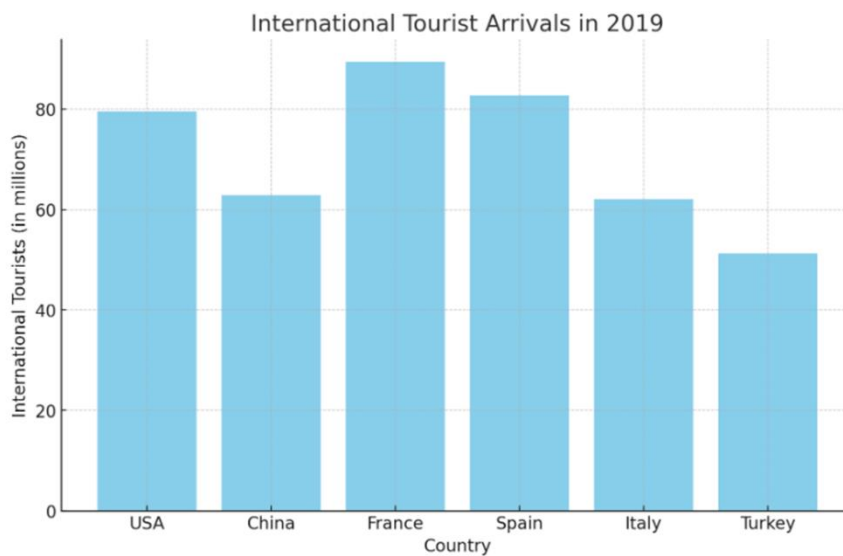
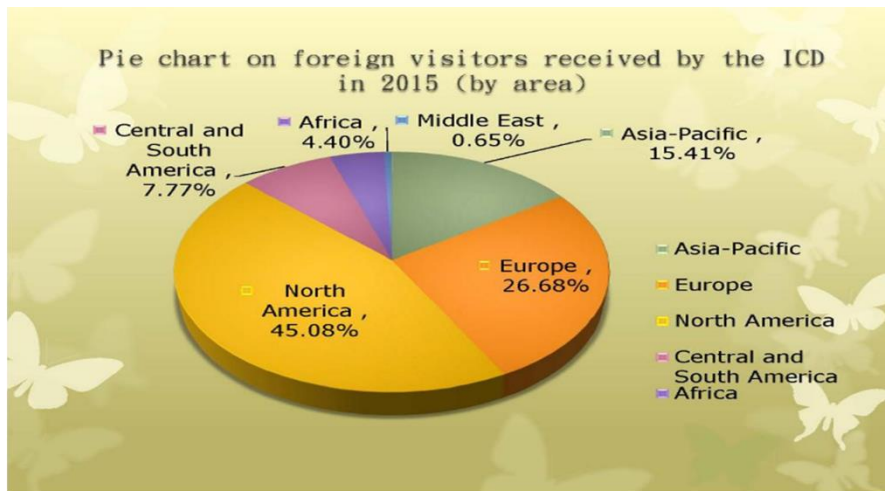
Highest Education Achieved by Adults (over 25) in the U.S.

Data from the U.S. Census Bureau, 2000 census



New International Student Enrollment in the U.S.

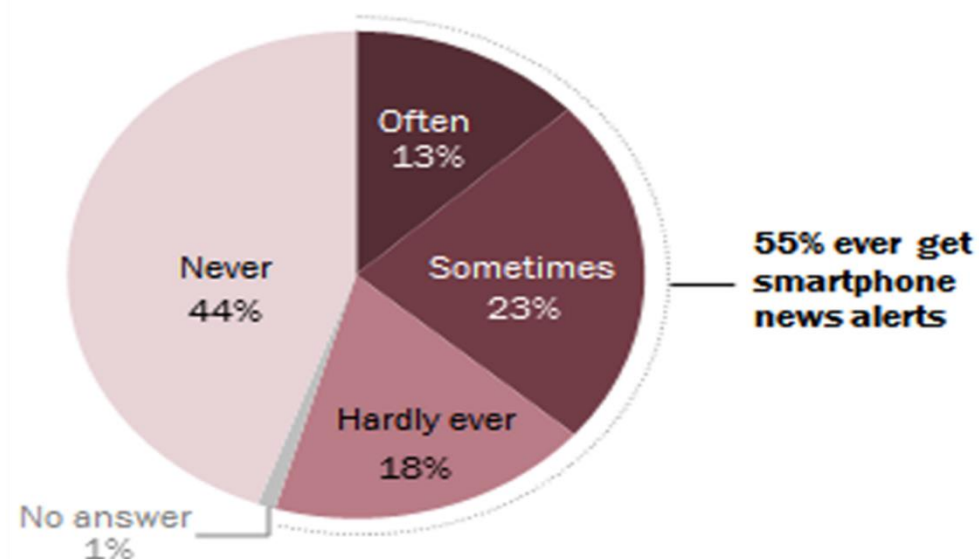






More than half of U.S. smartphone users ever get news alerts ...

% of U.S. smartphone users who ... get news alerts

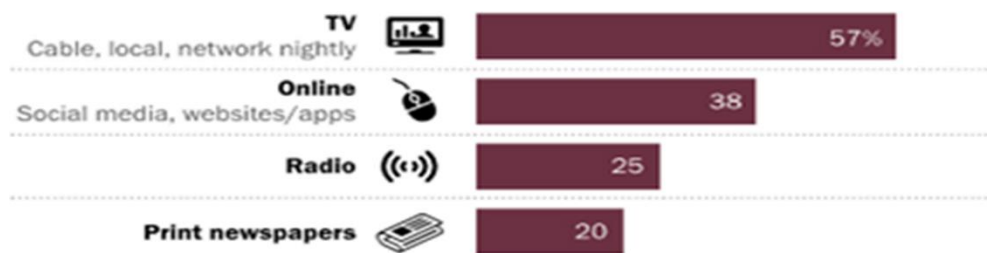


A



About four-in-ten Americans often get news online

% of U.S. adults who often get news on each platform



% of each age group who often get news on each platform

	18-29	30-49	50-64	65+
TV	27%	45%	72%	85%
Online	50	49	29	20
Radio	14	27	29	24
Print newspapers	5	10	23	48

A

November jobs one-month net change

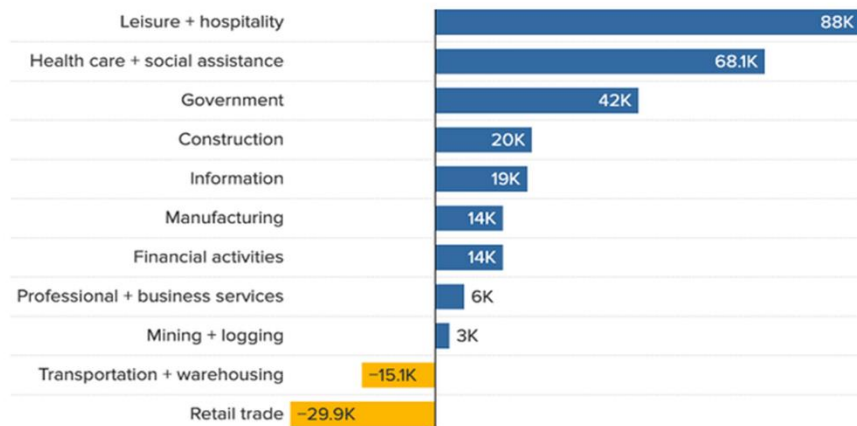
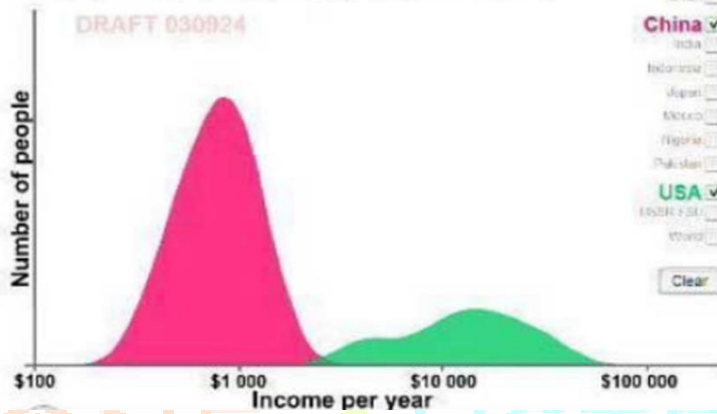


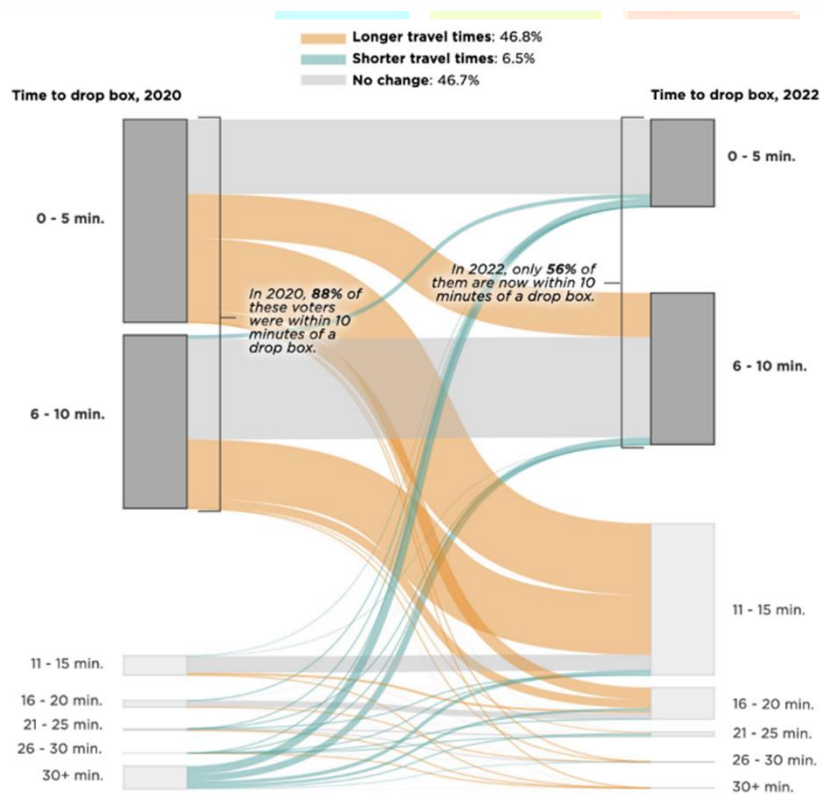
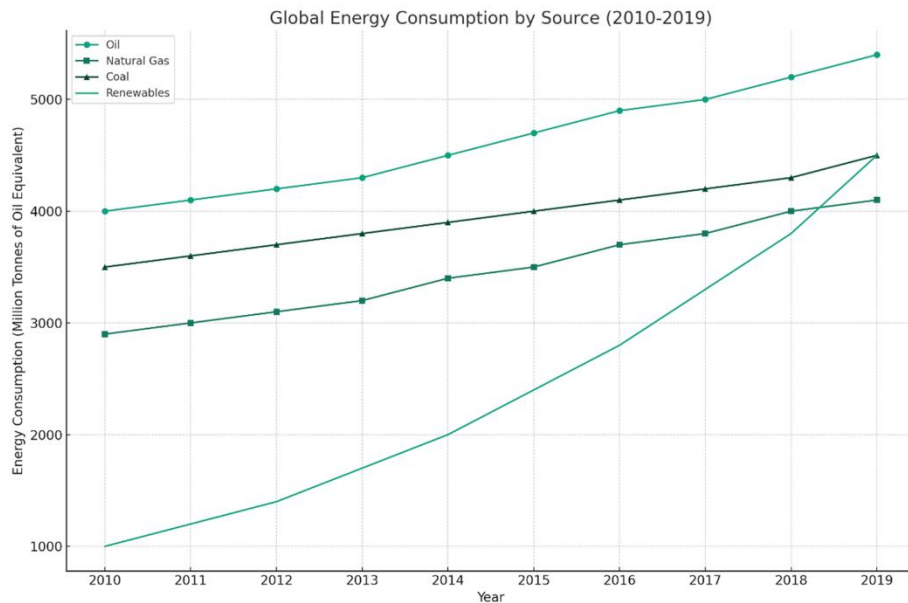
Chart: Gabriel Cortes / CNBC

Source: U.S. Bureau of Labor Statistics' [Employment Situation Summary](#) released Dec. 2, 2022



Income distribution 1970





A



The World's Most Powerful Passports

Number of visa free countries passport holders can visit in 2021

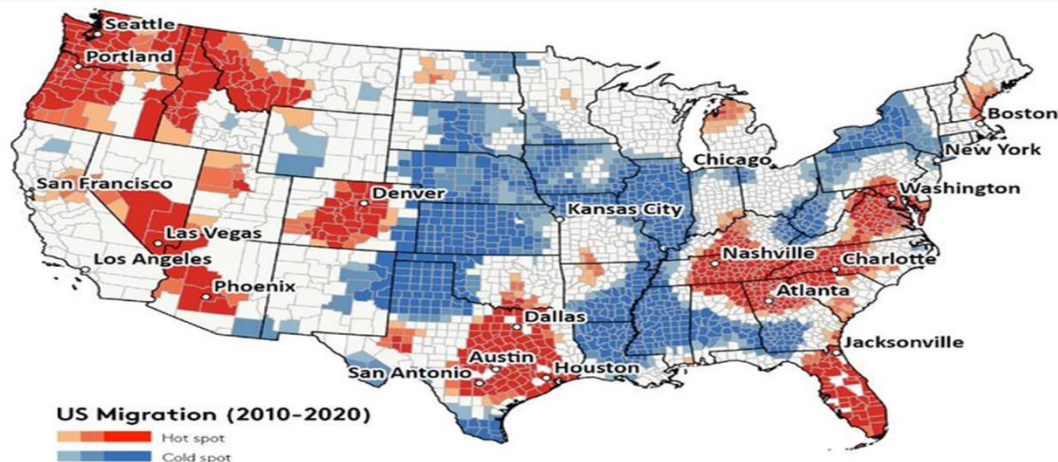


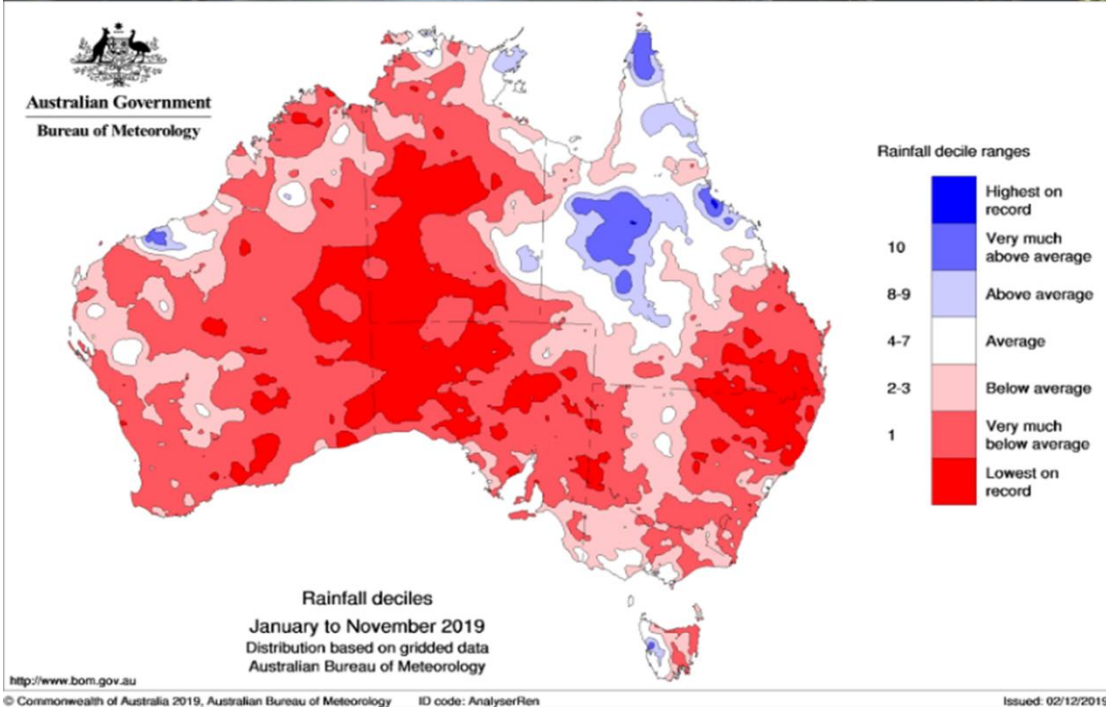
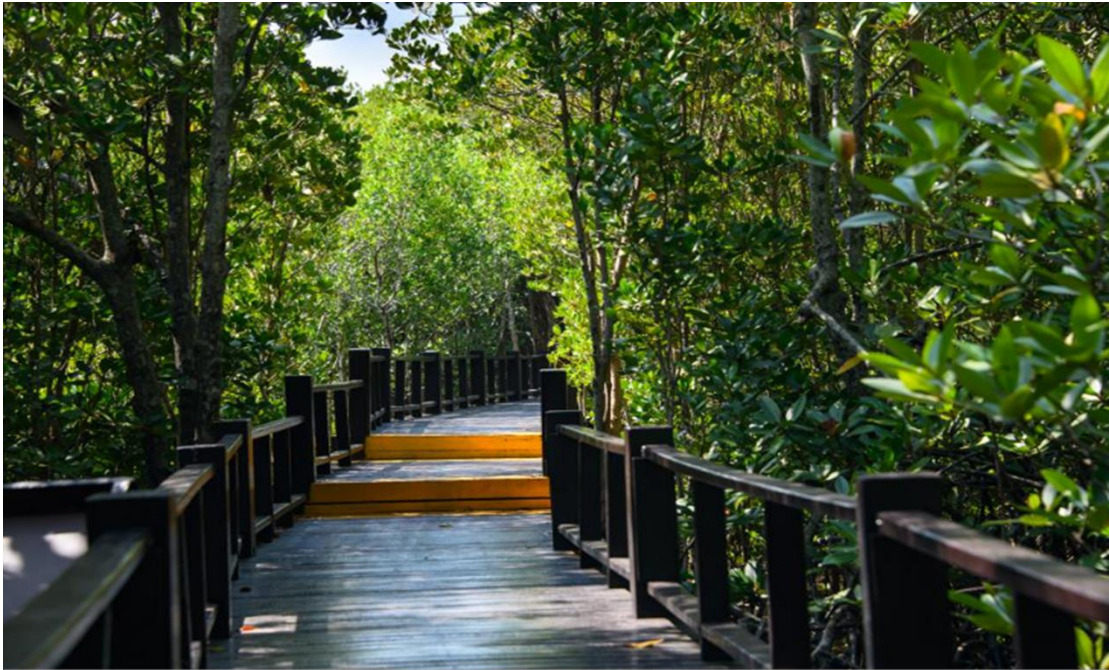
Japan 	193
Singapore 	192
South Korea 	191
Germany 	191
Italy 	190
Finland 	190
Spain 	190
Luxembourg 	190

Source: Q2 2021 Henley Passport Index



statista 





Unionizing at Starbucks

More than 250 stores across nearly 40 states have voted to unionize since 2021.

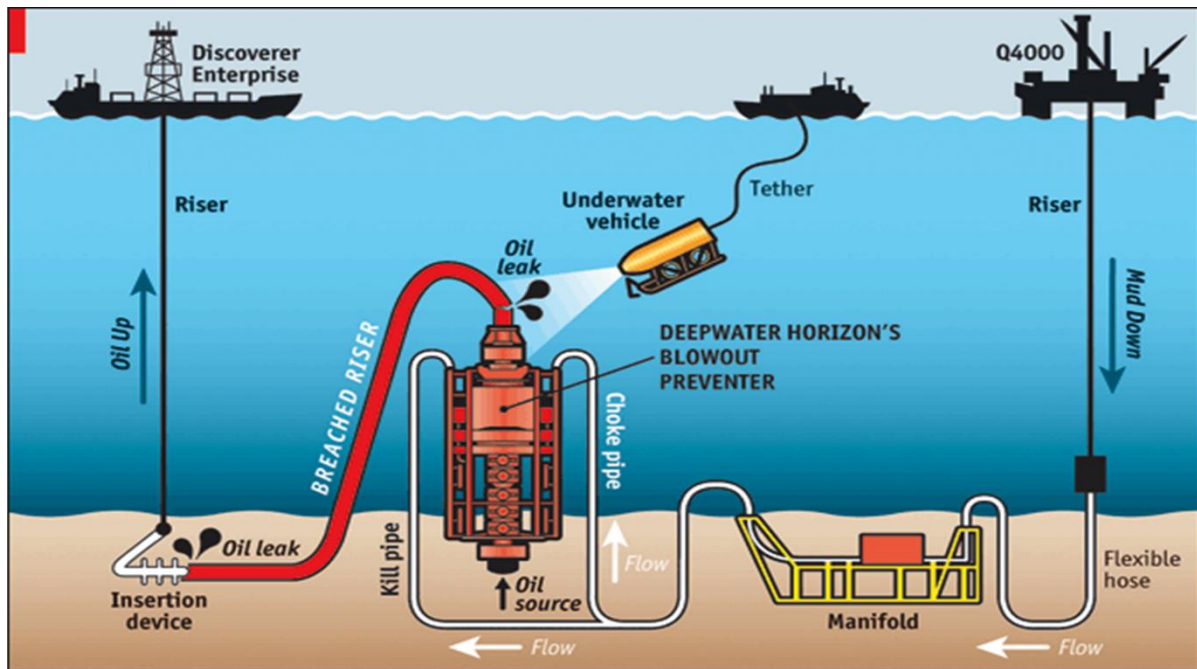
■ Union win (262) ■ Union loss or store closure (65) ■ Outcome pending or contested (32)



Note: As of Dec. 8, 2022

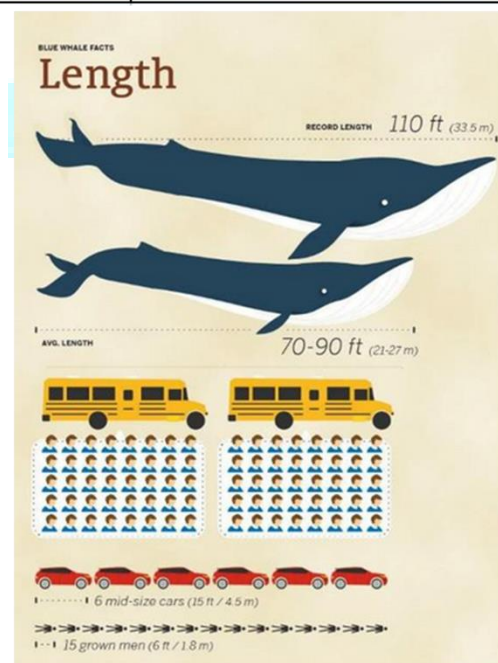
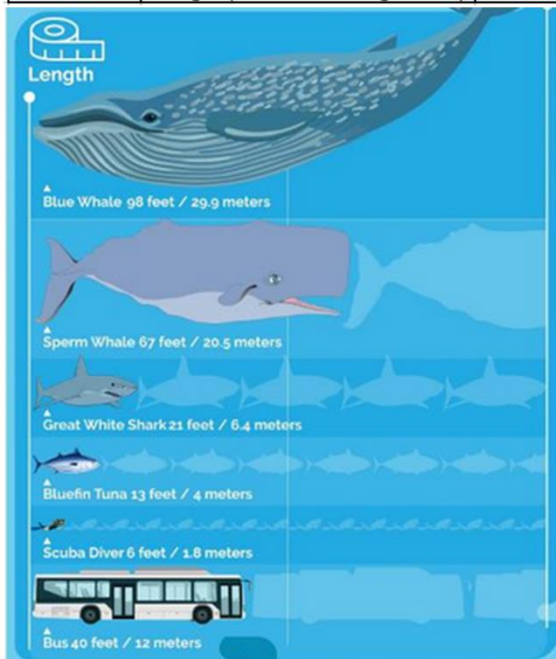


A

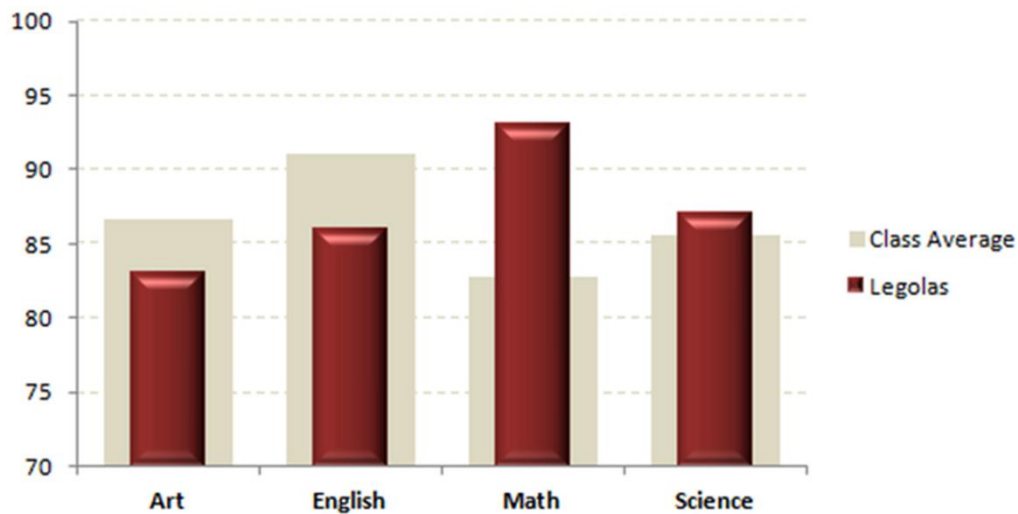


The Most Common Languages in the World

LANGUAGE		APPROXIMATE NUMBER OF NATIVE SPEAKER(in the year 2000)	COUNTRIES WITH SUBSTANTIAL NUMBERS OF NATIVE SPEAKERS
1	Mandarin Chinese	874,000,000	16
2	Hind(India)	366,000,000	17
3	English	341,000,000	104
4	Spanish	322-358,000,000	43
5	Bengali(India and Bangladesh)	207,000,000	9

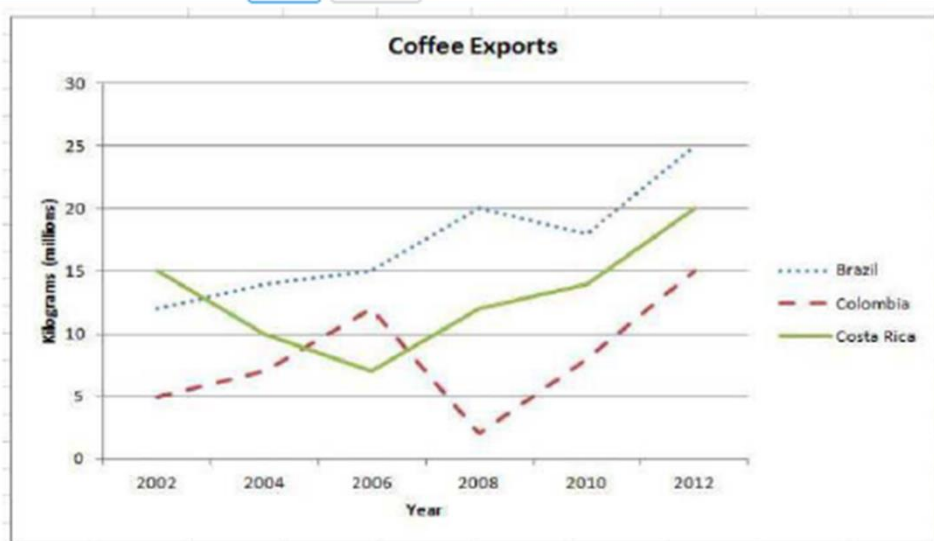


Legolas's Marks vs Class Average



Australia = Inbound visitors (2005 & 2006)

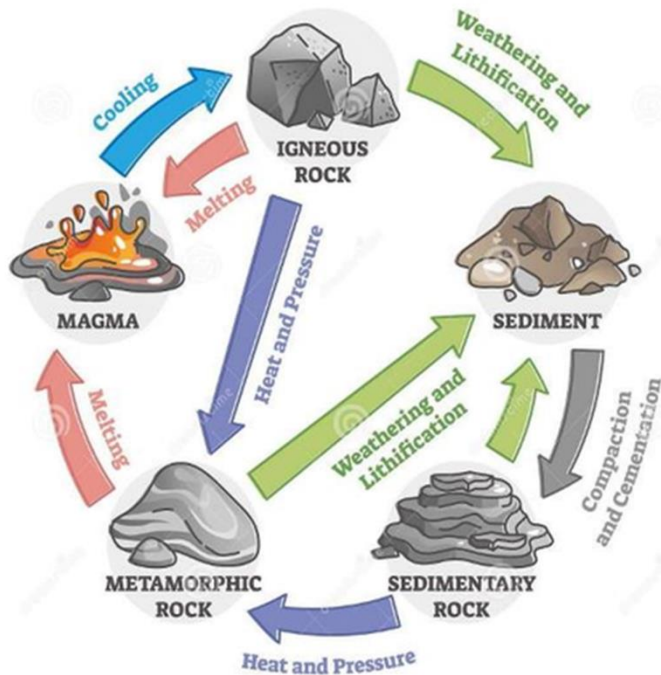
Inbound visitors to Australia	2005	2006
New Zealand	1099	1073
Japan	576	586
United States	700	720
Germany	430	410
short-time stays





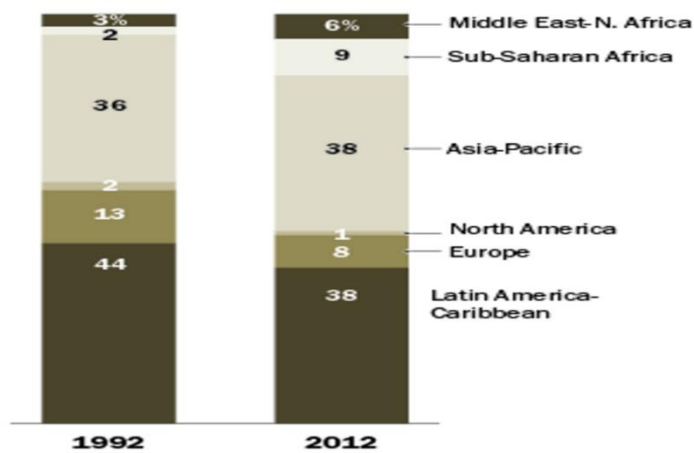


ROCK CYCLE



Growing Share of Legal Immigrants from Asia, the Middle East and Africa

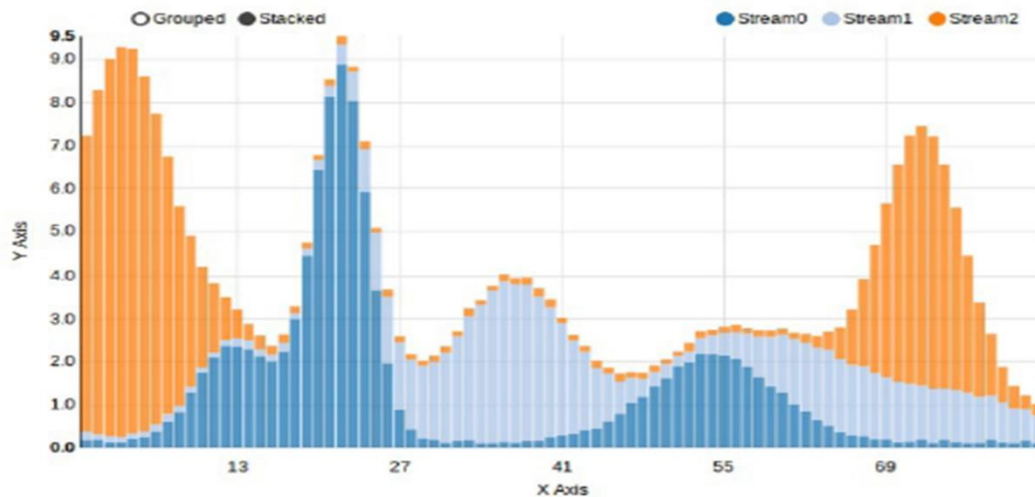
Percentage of legal immigrants from ...



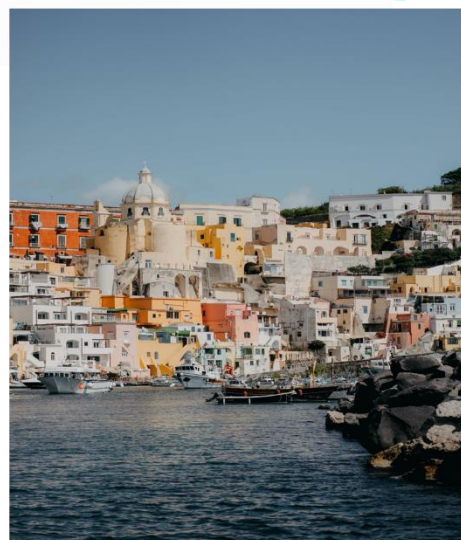
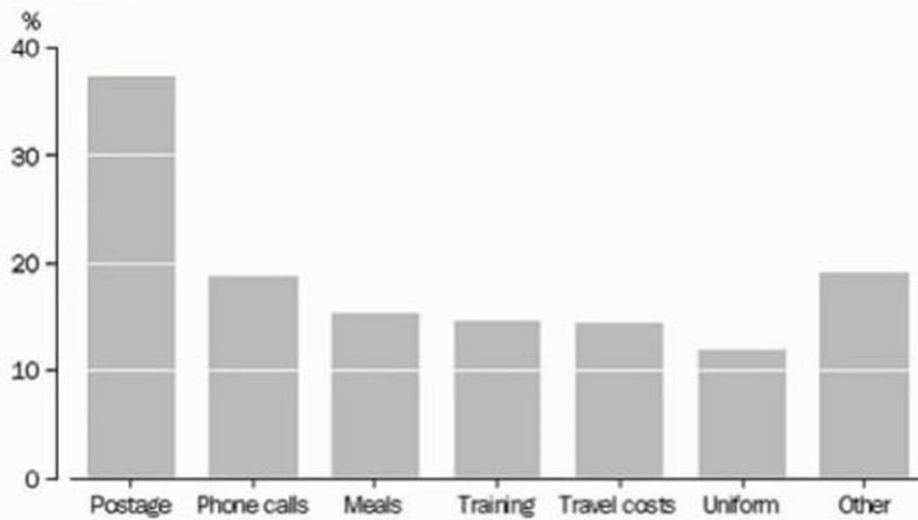
Sources: Office of Immigration Statistics—Department of Homeland Security (1992-2012)

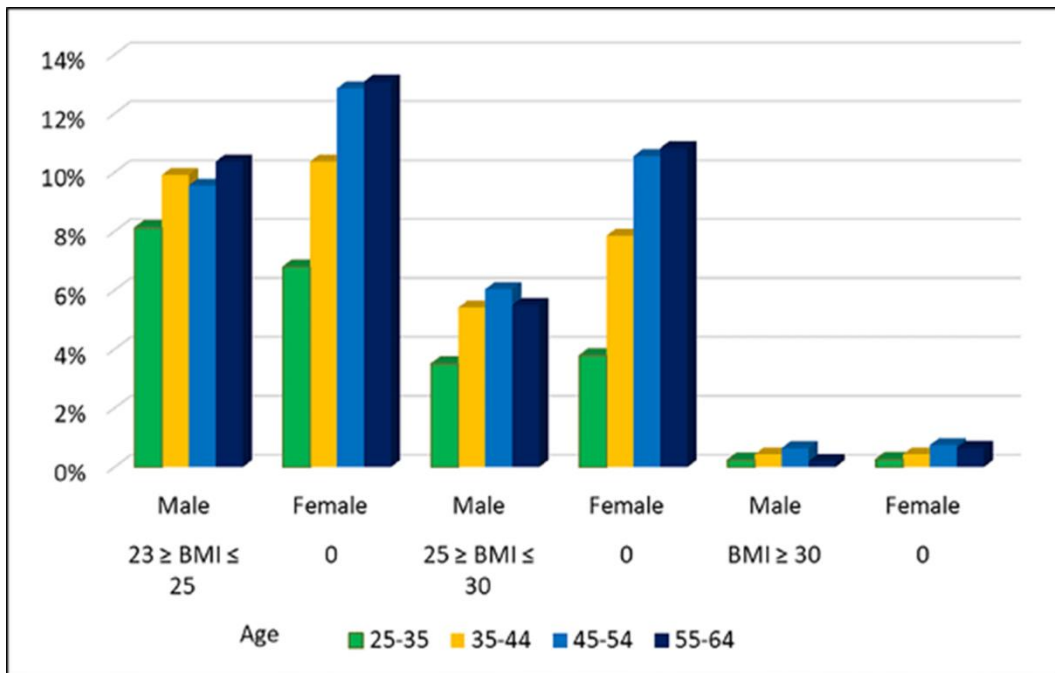
PEW RESEARCH CENTER





VOLUNTEERS WHO INCURRED EXPENSES: REIMBURSEMENT AVAILABLE





KPI	Strong leadership	All others	Relative difference
Survey percentage	28.2%	71.8%	
Annual revenue growth	10.8%	7.8%	38.2%
Percentage of business from new clients	32.7%	28.8%	13.6%
Billable utilization	75.1%	70.2%	6.9%
Projects delivered on time	80.4%	73.5%	9.3%
Annual revenue per billable consultant (k)	\$216	\$196	10.4%
Annual revenue per employee (k)	\$183	\$174	5.5%
Earnings before income taxes, depreciation and amortization (EBITDA)	14.2%	14.0%	1.9%

Source: Service Performance Insight, January 2014

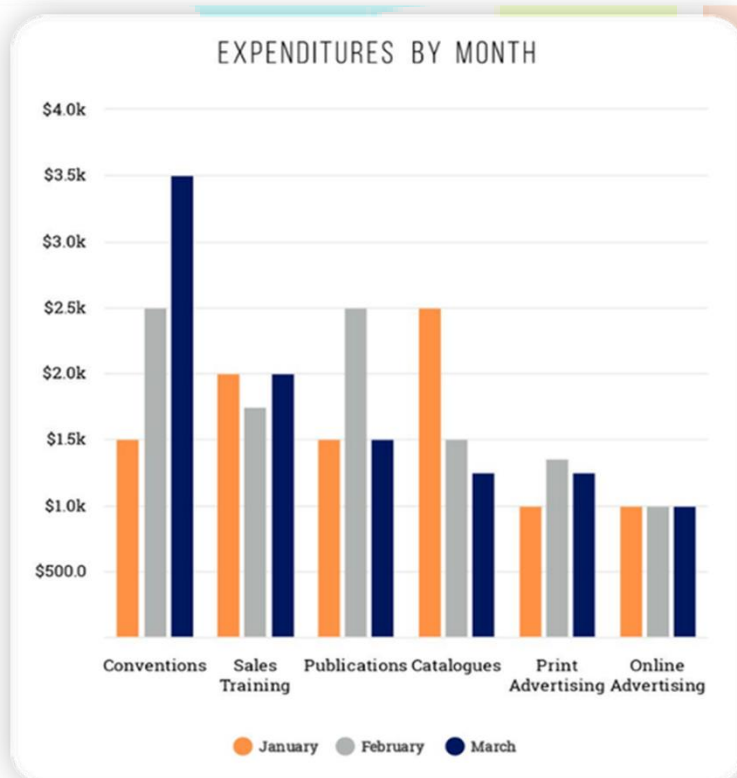


CHART 7

Students' Average Estimate of Financial Resources to Pay for College

Grants or scholarships that do not have to be repaid

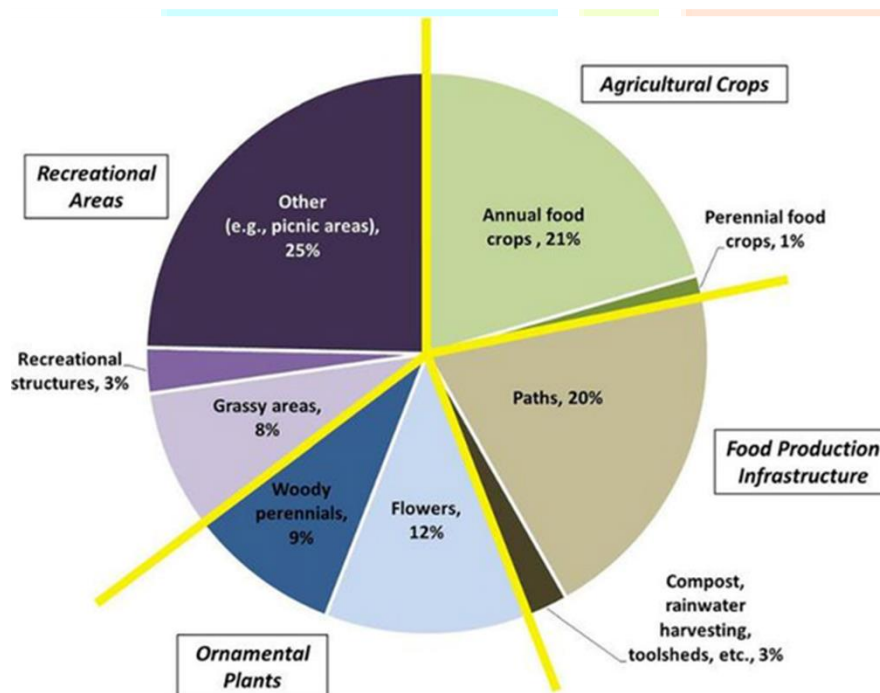
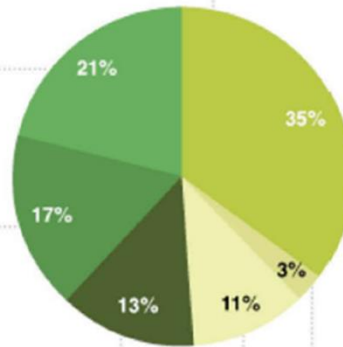
Loans that will have to be repaid after graduation

Money you or your immediate family have saved

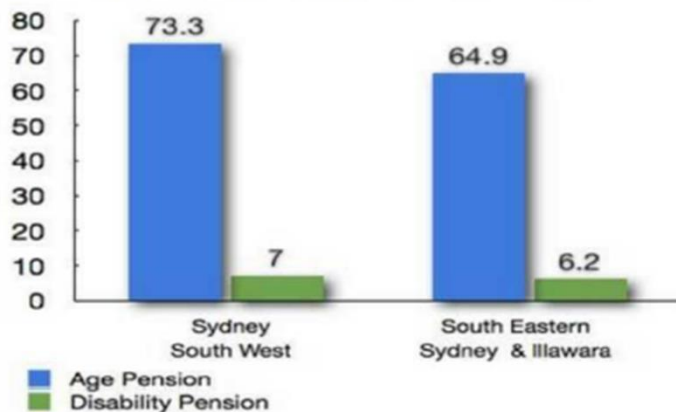
Money your parents or immediate family will earn during college

Money you will earn during college

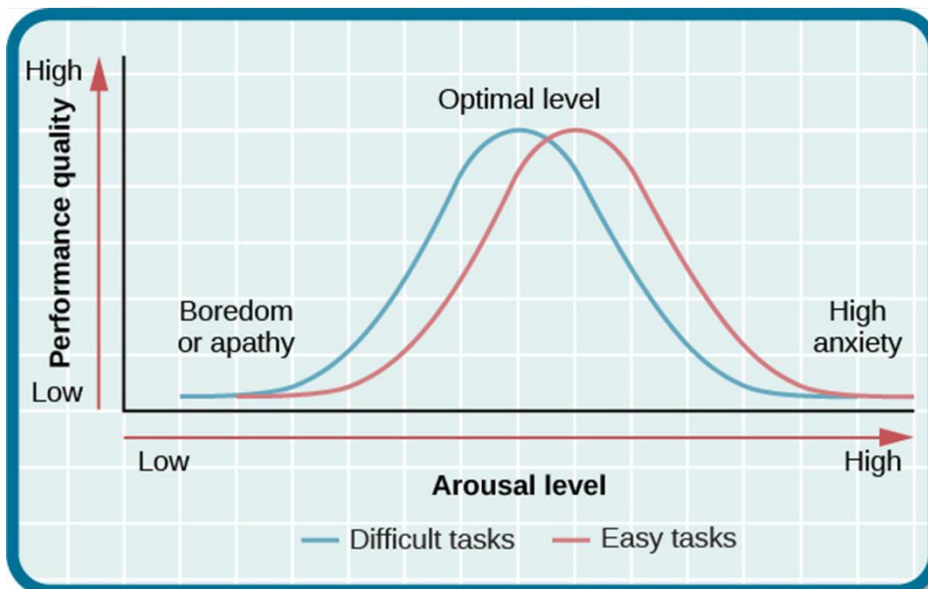
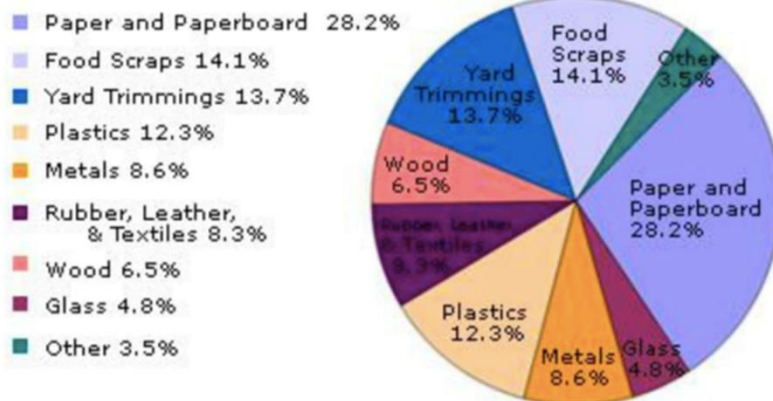
Money from church, community groups, or extended family



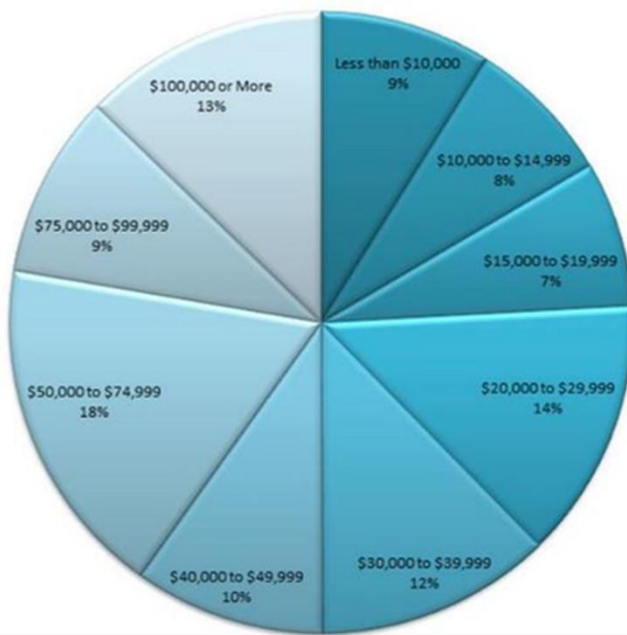
Benefit Recipient by Health Area in Sydney, 2004 (Per cent of eligible population)



Total MSW Generation (by Material), 2009 243 Million Tons (Before Recycling)



Percent of Households per Income Level (2005)



Newcomer's Guide to Coffee in Australia



SydneyMovingGuide.com/coffee

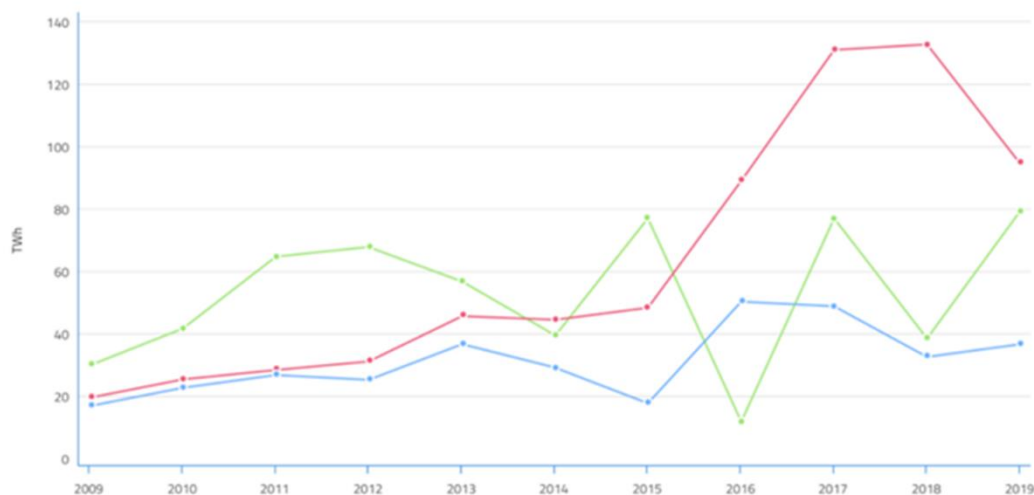
Change of Primary Funding Sources of International Students in the U.S., 2003/04 -2013/14

PRIMARY SOURCE OF FUNDING	2003/04		2013/14		% CHANGE FROM 2003/04 TO 2013/14
	NUMBER OF STUDENTS	% OF TOTAL	NUMBER OF STUDENTS	% OF TOTAL	
Personal and Family	385,543	67%	574,129	65%	49%
U.S. College or University	134,015	23%	171,218	19%	28%
Foreign Government or University	13,699	2%	66,147	7%	383%
Current Employer	10,111	2%	49,503	6%	390%
Other Sources	29,141	5%	25,055	3%	-14%
Total	572,509	100%	886,052	100%	55%

Source: Based on WES analysis of IIE Open Doors data (2014).

Renewable Electricity generated

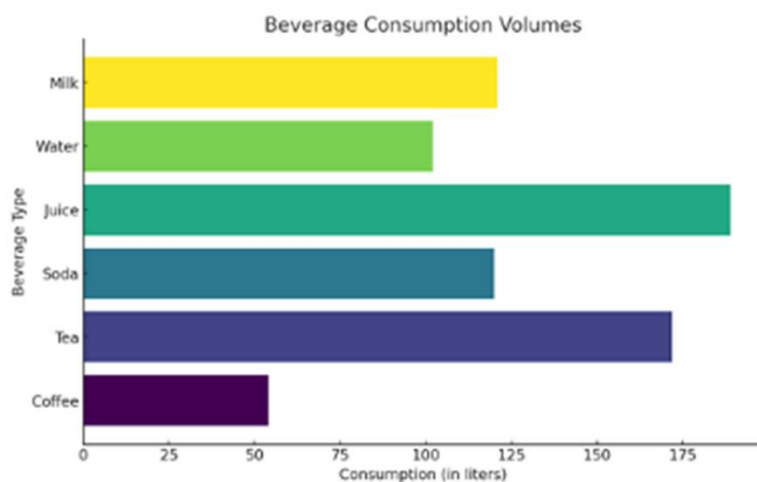
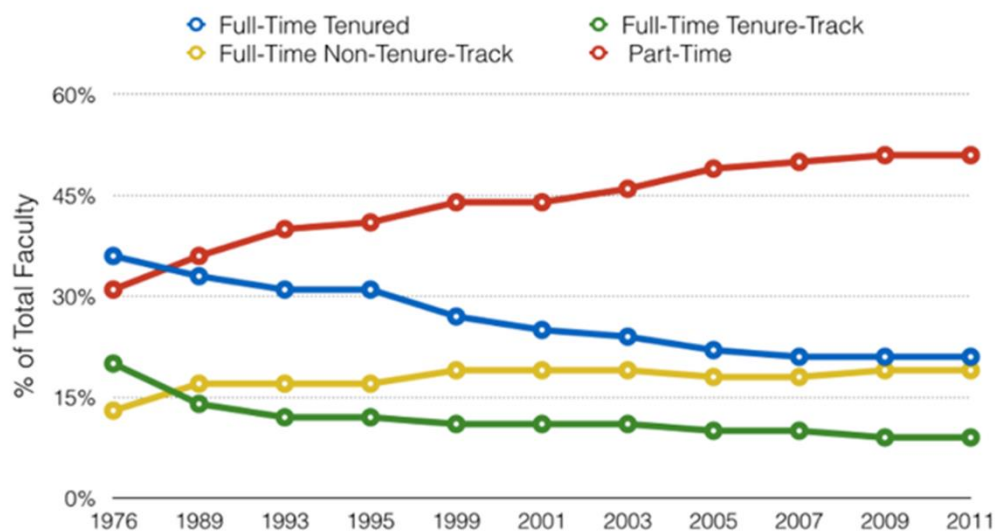
— Europe — China — United States

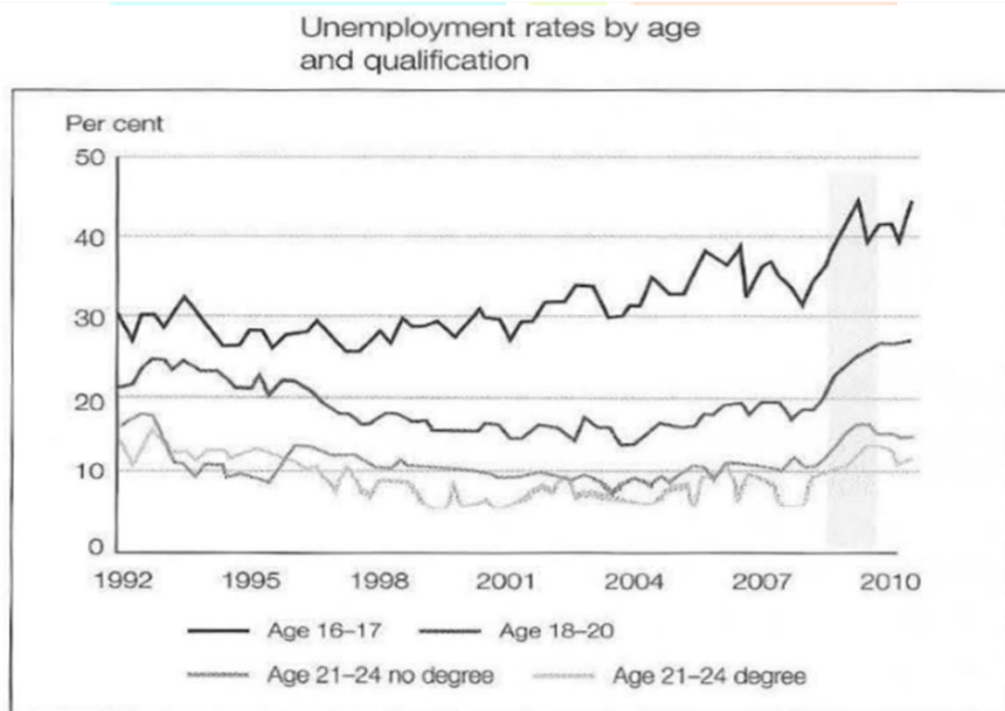
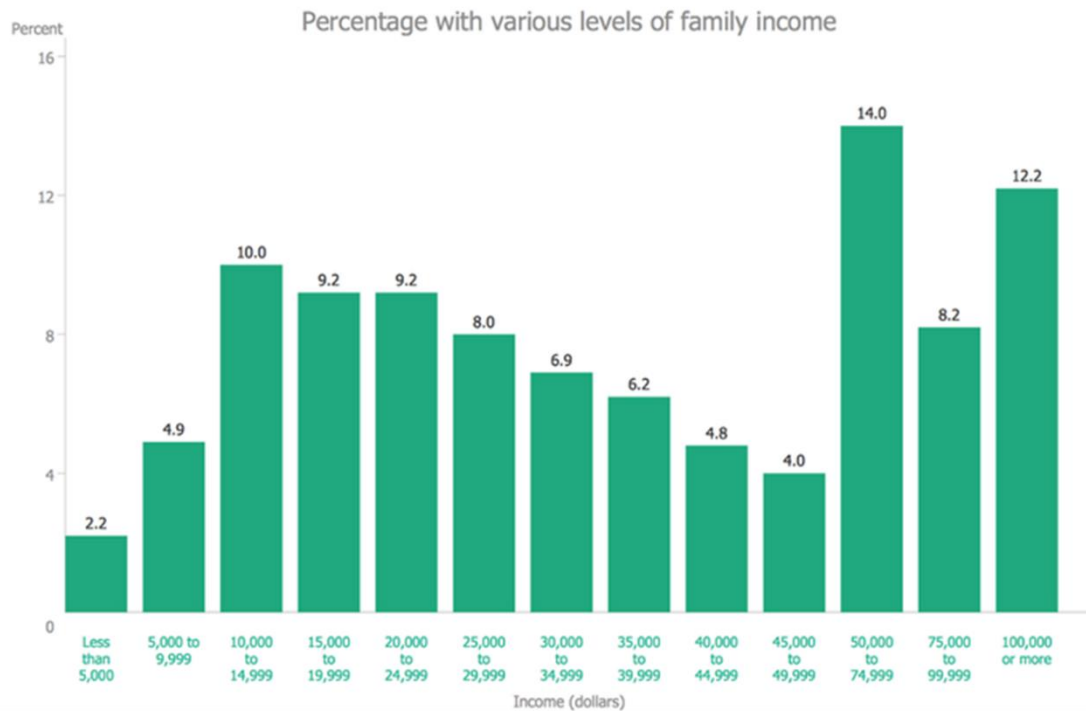


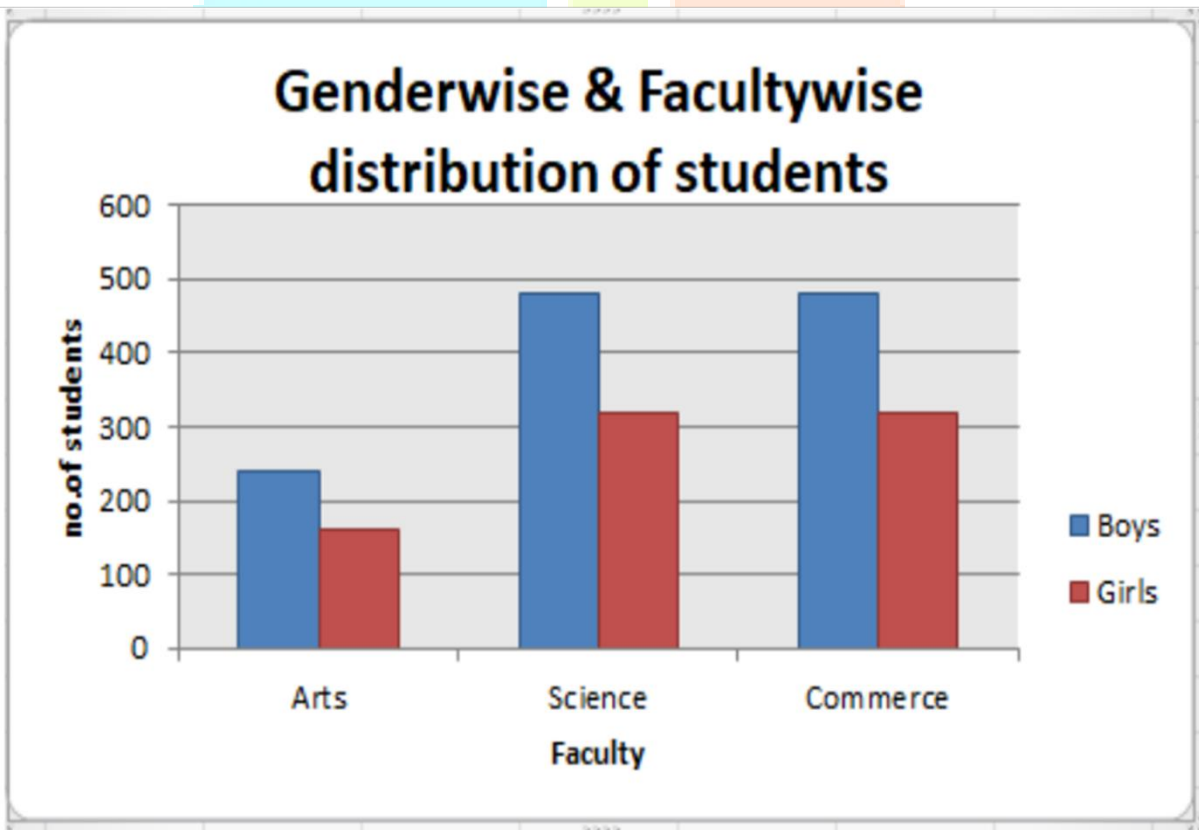
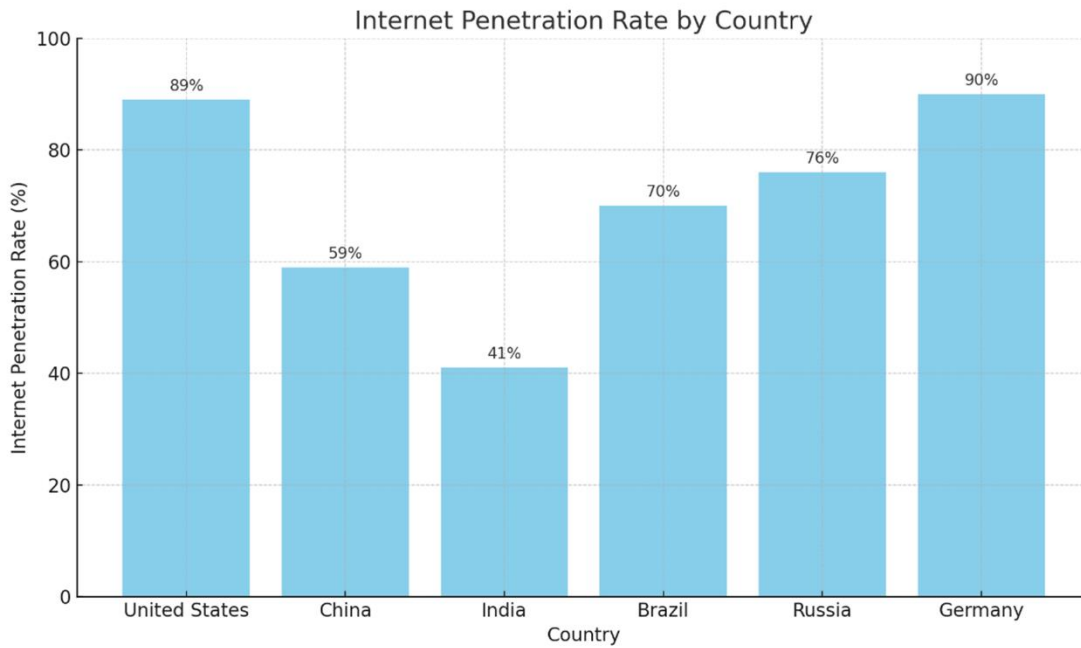
Financial Statement of XG

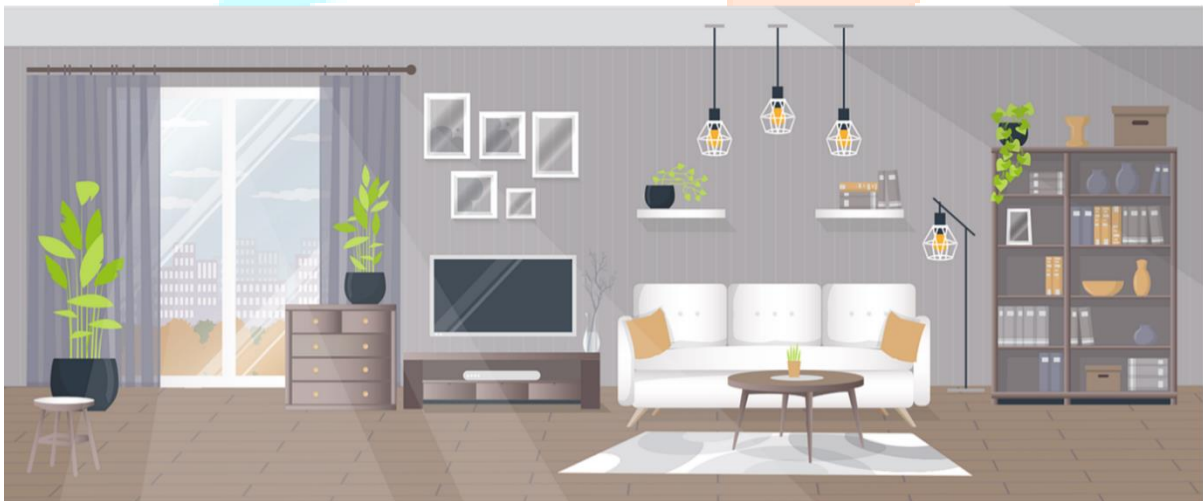
Year	Revenue (\$)	Expenses (\$)	Profit (\$)
2020	100000	70000	30000
2021	120000	80000	40000
2022	140000	90000	50000

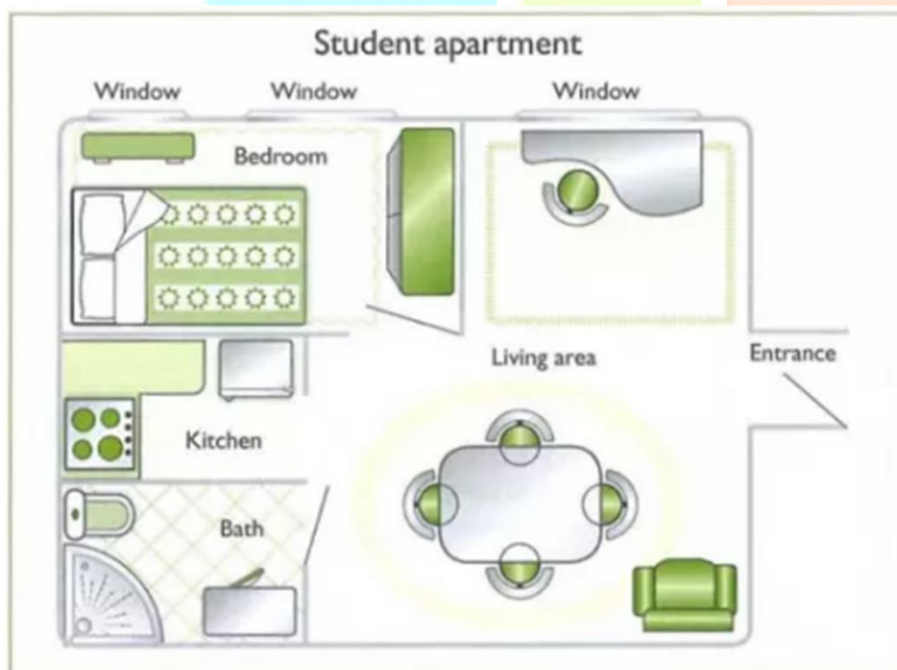
Trends in Faculty Employment Status, 1976-2011



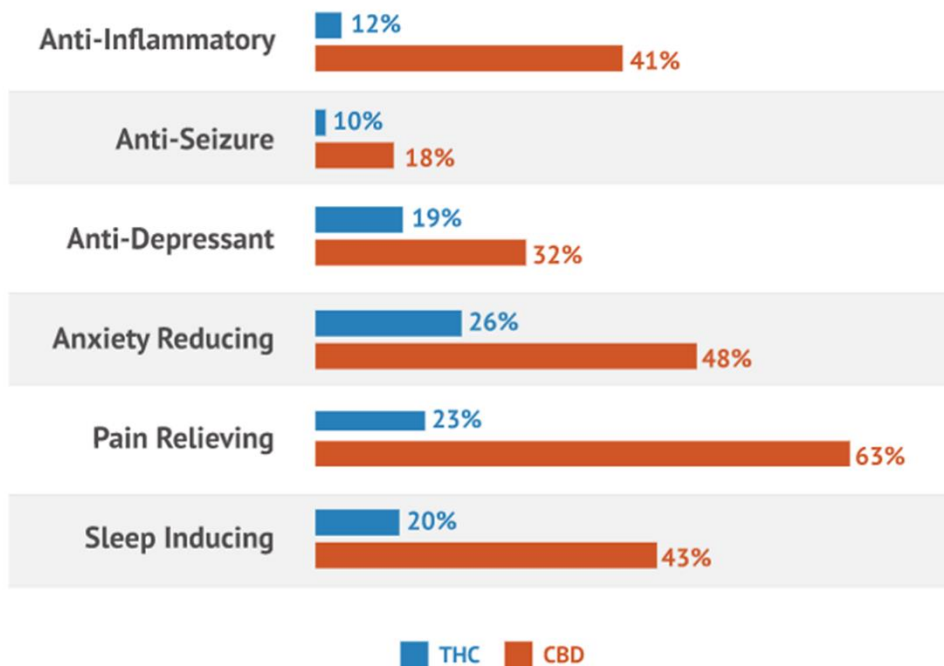




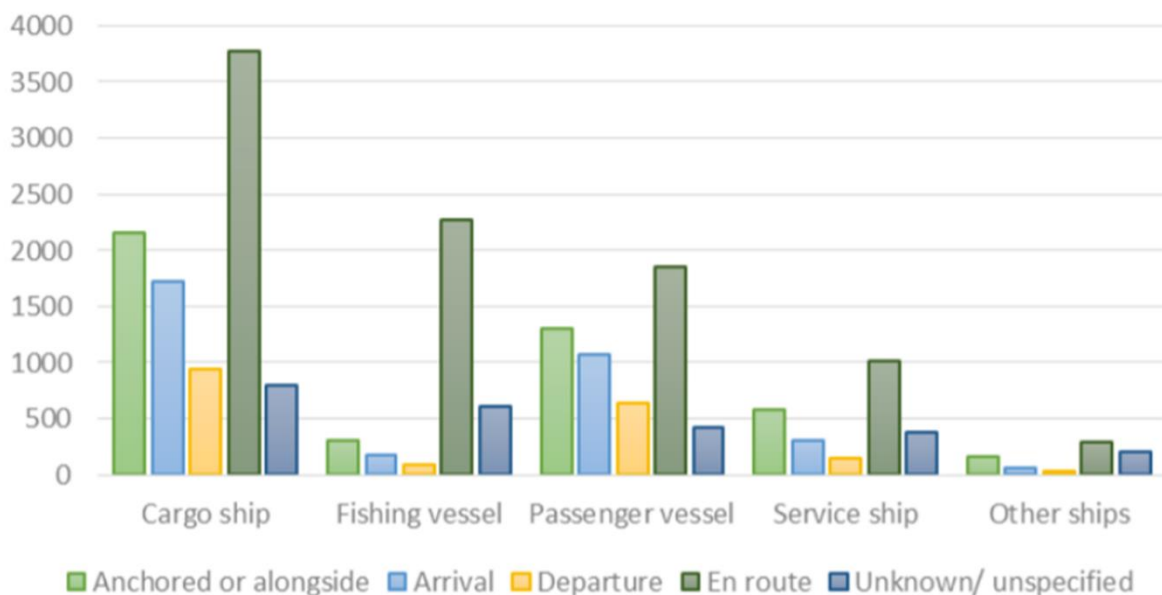




Desired Effects When Using THC vs. CBD

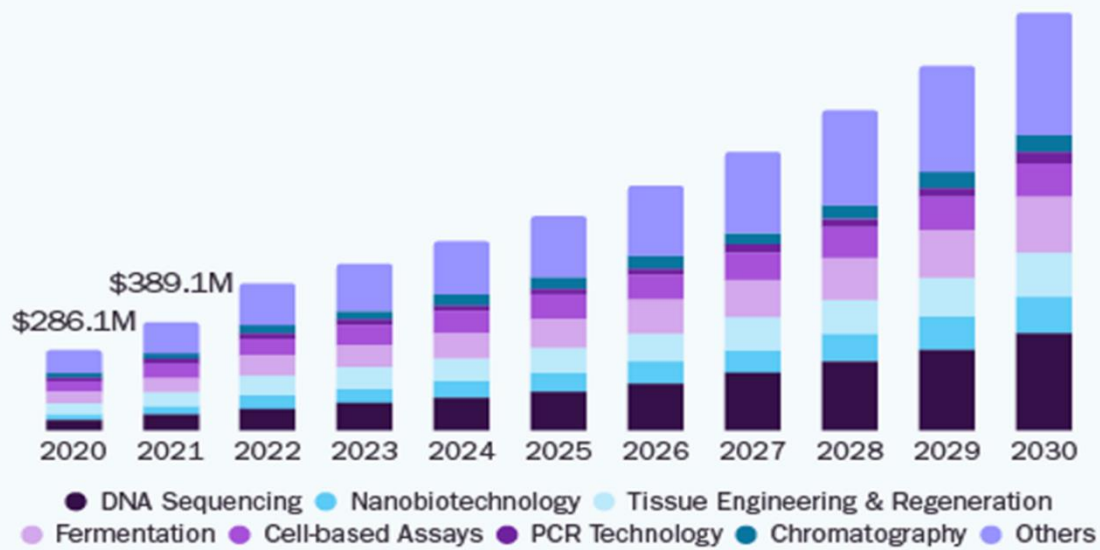


Distribution of voyage segments per ship type



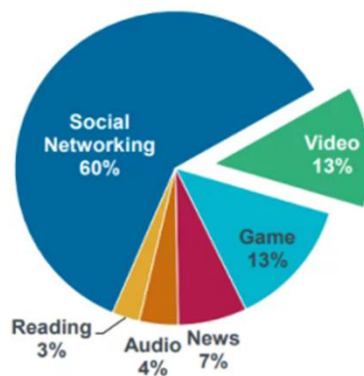
U.S. Biotechnology Market

size, by technology, 2020 - 2030 (USD Million)

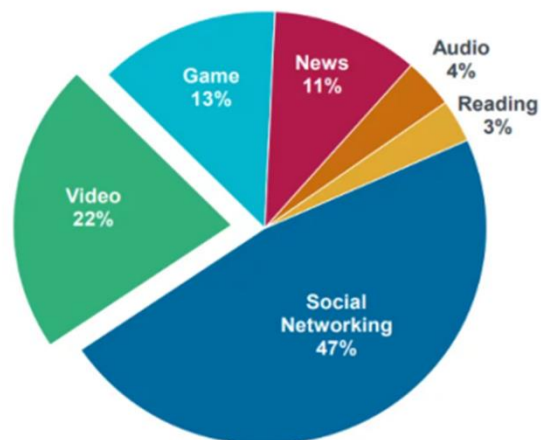


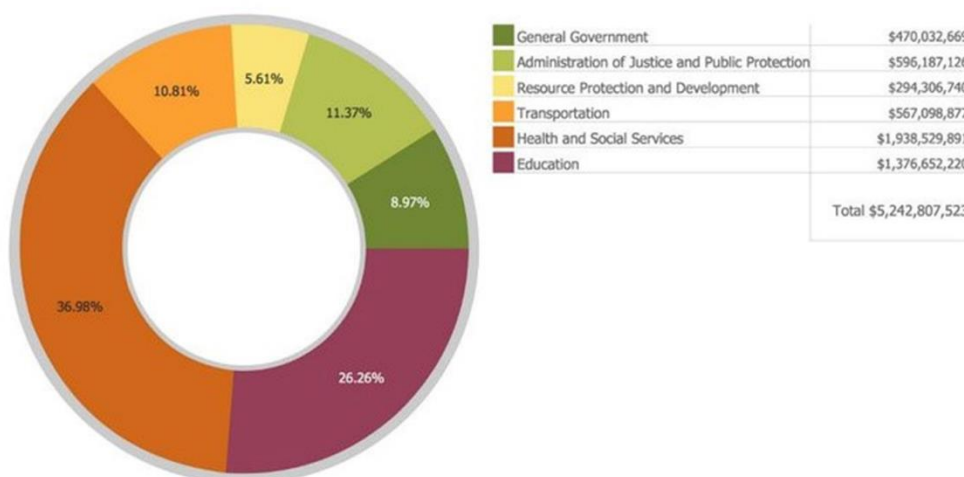
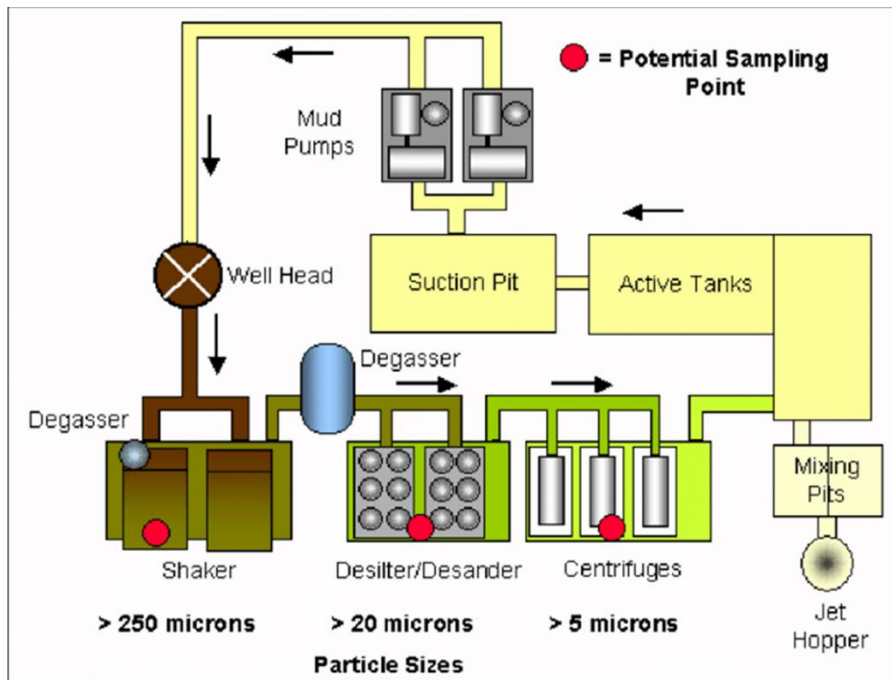
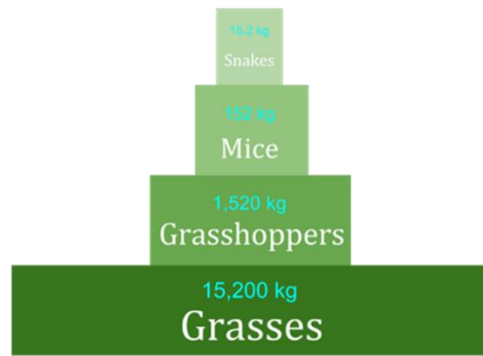
China Mobile Media / Entertainment Daily Time Spent

March 2016
2.0B Hours

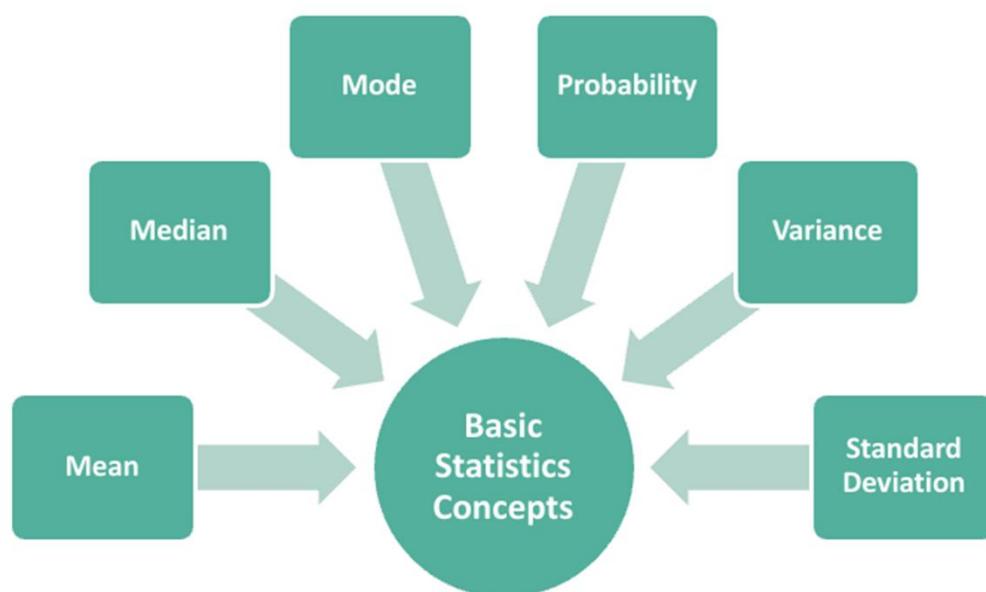


March 2018
3.2B Hours, +22% Y/Y

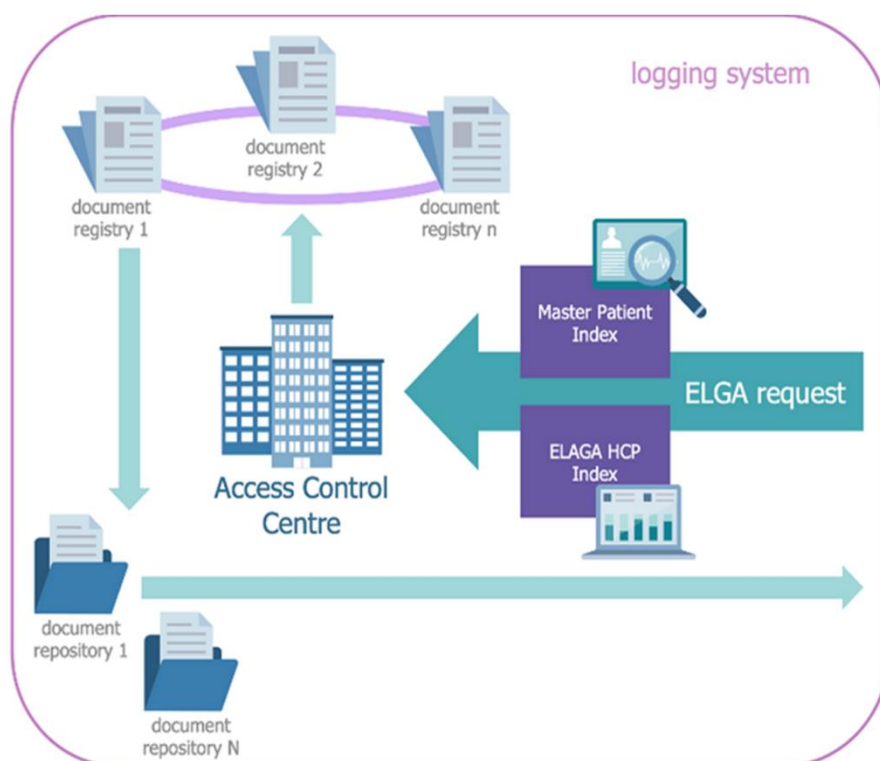




Basic Statistics Concepts

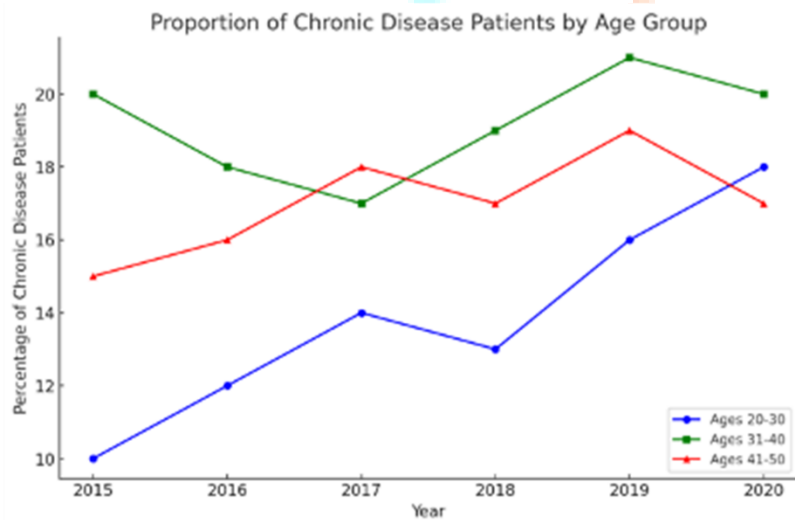
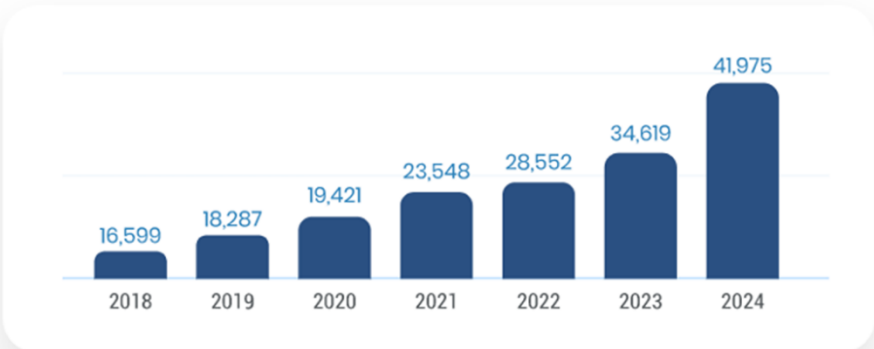


WallStreetMojo



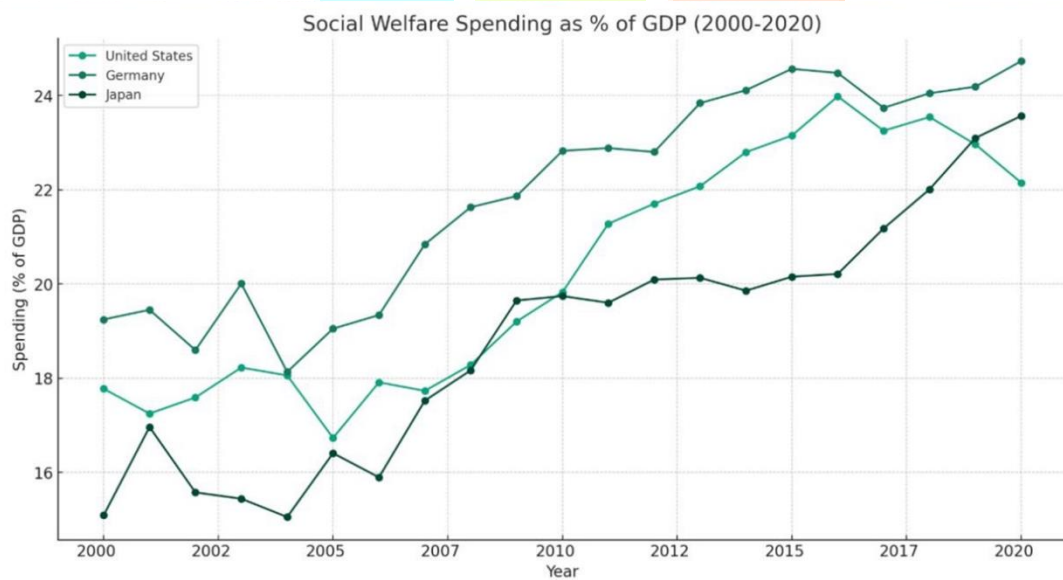
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GROWTH IN COWORKING SPACES WORLDWIDE

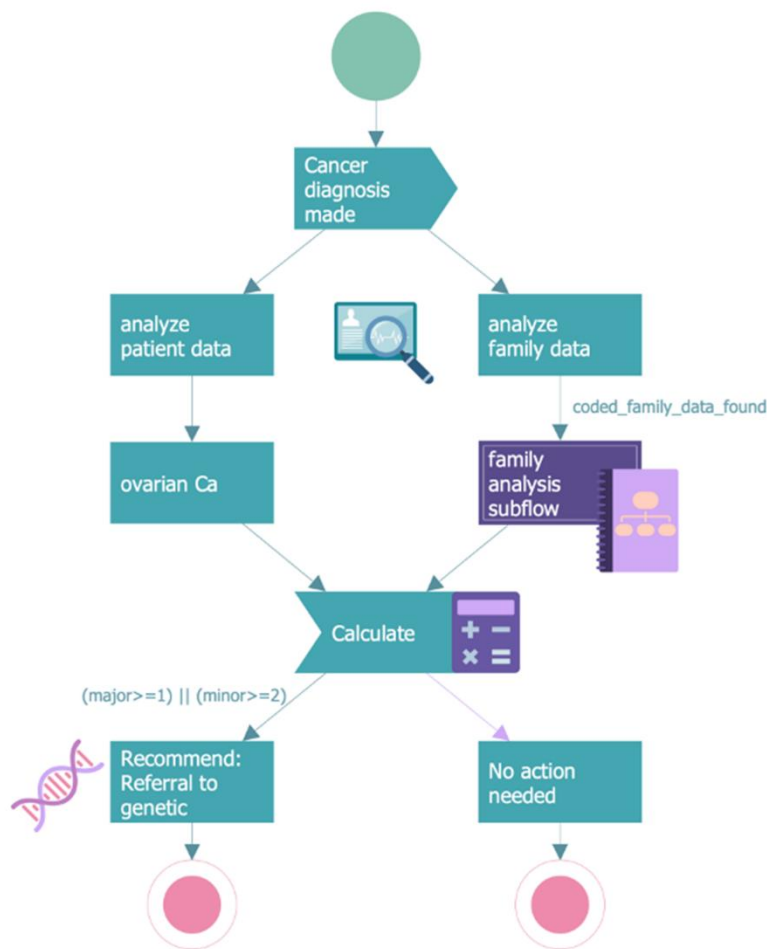
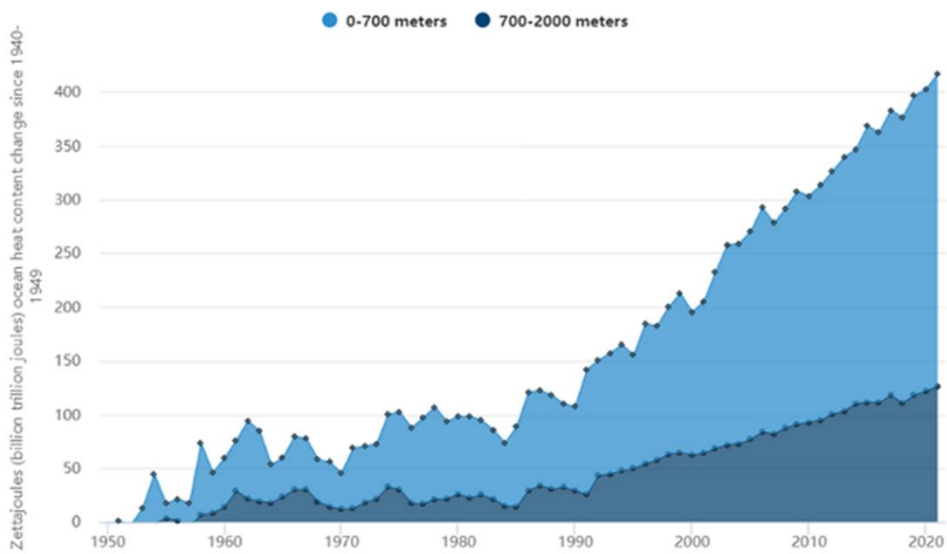


ONE AUSTRALIA





Global ocean heat content, 1950-2021





RETELL LECTURE

Sustainable Farming

As the world's population grows, ensuring everyone has access to sufficient, nutritious food is a critical challenge. Sustainable farming practices offer a promising solution to this challenge. Firstly, sustainable farming involves methods that are environmentally friendly, such as reducing chemical use, conserving water, and promoting biodiversity, these practices are not only crucial for protecting our environment but also for ensuring long-term agricultural productivity. Healthy ecosystems are more resilient and can provide the resources needed for continuous food production. Secondly, sustainable farming includes a focus on local production and distribution. By supporting local food systems, we can reduce the carbon footprint associated with long-distance transportation of food.

Turing

Alan Turing, a figure whose groundbreaking work laid the foundations for modern computing and artificial intelligence. Alan Turing, often referred to as the father of modern computing, made significant contributions during World War II by developing techniques to break the German Enigma code. His work at Bletchley Park was crucial in deciphering coded messages, giving the Allies a decisive advantage. Post-war, Turing focused on developing one of the first designs for a stored-program computer and conceptualized the Turing Machine, a model that became fundamental in understanding the limits of algorithmic computation. His 1950 paper, "Computing Machinery and Intelligence," questioned whether machines could think, pioneering the field of artificial intelligence.

Steve Jobs

Steve Jobs is a visionary who fundamentally changed the landscape of technology and innovation. His story is not just about the creation of Apple, but about the power of vision and perseverance. Steve Jobs co-founded Apple in a garage in 1976, revolutionizing the tech industry with products like the Macintosh, iPod, iPhone, and iPad. These innovations went beyond mere technological advancements; they transformed the way we communicate, work, and entertain ourselves. His keen eye for design and detail made technology not only functional but also aesthetically pleasing and user-friendly. Jobs' journey was not without challenges. He faced setbacks, including being ousted from Apple, but he returned in 1997 to save the company from near bankruptcy. His resilience and ability to innovate in the face of adversity are as inspiring as his technological achievements.

Emotional Impacts

I suppose that it has always been the case for the majority of us that the first test of a work of art or literature or music is how much pleasure it gives us, and we don't want to bother with analysing because or how it has had such an emotional impact on us. It's always good to know what your pleasures are in the positive sense - and not as easy as some people think - as opposed to only really knowing what you don't like and complaining about it, though presumably there's some kind of pleasure to be had from that too. But now that you've chosen to take a course on the novel, I'm

afraid that evaluating literature on the basis of how you feel about a book won't count as an intelligent critical response to the work being studied.

Electrical Vehicle

This week I'd like to start by talking a bit about electric vehicles. Although we tend to think of electric cars as being something completely modern, they types of motorized vehicle. At the beginning of the twentieth century electric cars were actually more were in fact some of the earliest popular than cars more comfortable to ride in. However, as cars fuelled by petrol increased with an internal combustion engine as they were in importance, electric cars declined. The situation became such that electric vehicles were only used for certain specific purposes - as fork-lift trucks, ambulances and urban delivery vehicles, for example. Although electricity declined in use in road vehicles, it steadily grew in importance as a means of powering trains. Switzerland, for example, was quick to develop an electrified train system, encouraged in this no doubt by the fact that it had no coal or oil resources of its own.

Technology and Writer

By the middle of the 19th century, the fountain pen had been invented. It didn't need such constant refilling, which can account for the more flowing, discursive style of, say, Dickens and Thackeray, as well as their tremendous output. Then came the typewriter, whose purpose, once you got the hang of it, was to speed up the writing process and was therefore much favored by journalists. This, it seems to me, gave rise to a short-winded style characterized by short sentences. A short prose style, if you like. Dictating machines and tape recorders led, as one novelist complained, to writers becoming too conversational, rambling and long winded. Henry James, although he didn't use these machines, dictated his later novels and, well, some might agree with this accusation. Well, it looks as though we're going to have to leave word processors, computers and, of course, the way film and its narrative techniques

Amelia Earhart

Amelia Earhart, a trailblazing aviator whose courage and determination broke barriers in the sky and paved the way for future generations. Her story goes beyond her achievements in aviation; it's a testament to the power of ambition and resilience. Amelia Earhart was not only the first female aviator to fly solo across the Atlantic Ocean, but she also set numerous flying records and championed the advancement of women in aviation. Her 1932 solo transatlantic flight was a remarkable feat that challenged the prevailing norms of her time and showcased her exceptional skills and bravery, despite facing numerous obstacles, including societal expectations and technical challenges. Earhart remained undeterred. Her pioneering spirit was evident in her tireless efforts to promote aviation and women's rights, making her a role model and an icon of empowerment. Tragically, Earhart's quest to circumnavigate the globe in 1937 ended in mystery, but her legacy endures.

Reef

Now, I am thrilled to take you on a journey to explore the Great Barrier Reef, one of the most stunning and important natural wonders of our world. This vibrant underwater ecosystem is not just a spectacle of beauty but also plays a crucial role in the environmental health of our planet. The Great Barrier Reef, located off the coast of Australia, is the largest coral reef system in the world. It is home to an incredible diversity of marine life, including thousands of species of fish, corals, and other sea creatures. This biodiversity makes it a critical habitat for conservation and a

natural laboratory for scientists studying marine ecology. However, the Great Barrier Reef faces significant threats, primarily from climate change. Rising sea temperatures have led to coral bleaching, endangering this vibrant ecosystem. The Reef's health is a crucial indicator of the overall health of our oceans and the planet.

Tesla

Today, I am eager to talk about Nikola Tesla, a visionary inventor whose innovations went far beyond his time and continue to influence our lives today. Tesla's story is not just about his inventions; it's about his extraordinary imagination and perseverance in the face of adversity. Nikola Tesla, often overshadowed by his contemporaries, was a prolific inventor and a brilliant mind. He is best known for his development of the alternating current (AC) electrical system, which is still the standard for global power distribution. This system enabled the efficient transmission of electricity over long distances, revolutionizing the way we use energy. Tesla's contributions weren't limited to electricity. He had a hand in the creation of radio, wireless communication, and even concepts that laid the groundwork for modern-day robotics. His foresight in these fields showed a man thinking far ahead of his time. Nikola Tesla's legacy is a testament to the power of innovative thinking and relentless pursuit of scientific discovery. He reminds us that the ideas and creations of one individual can change the course of history.

Freedom of Speech

To be a British, the first important thing is the freedom of speech that we have. It doesn't matter how small you are, how big you are, you are able to shout. I think security is very important. It's a society that has democracy as its basic value. There are people who come from a third world which wasn't a British colony where they didn't have democracy such way, they grew up under what I called a law lord. A system where the king or the local headman was the ruler of that particular area and he laid down the laws. And there are still parts of Africa as well as Middle East where the system still exists, they have to follow that ritual and that's it, they cannot argue against it. Well, in our British society, we can argue. As the American saying, we can fight the city hall and this is one thing which is very unique among the western civilization. Is that any voice is heard, however small is, however big is, we have the equal authority.

Salt

Salt was a highly valued commodity in ancient times. Not because it made food taste nicer, but because of the way it could be used to preserve food. This meant that people were not so dependent on seasonal variations in what was available for them to eat - they could preserve what they produced and consume it as required. It also meant that food could be transported long distances. Salt was not easy to obtain and so prices for it were high. It was often necessary to transport it long distances and it is believed that one of the reasons for building some of the roads that led to the ancient city of Rome was to make it easier to bring salt to the city from various parts of the Roman empire. Roman rulers took financial advantage of the population's need for salt. When they wanted to raise money for some war or another, they raised the price of salt. Elsewhere salt was important too. In Africa, for example, caravans consisting of up to forty thousand camels are said to have travelled four hundred miles across the Sahara to transport salt to the inland markets of places like Timbuktu.

Einstein's Insight

One of the most surprising insights from Einstein is that time is not what we intuitively think it is, right? Most of us have this sense that time for you is the same as time for me. And sometimes there is a cosmic clock that out there taking second after second after second, dragging it's all in

exactly the same way into the future. Einstein found that if you and I are moving relative to each other, however, our clocks don't take off the time at the same rate. Our watches if they were once in sync if we're moving relatively to each other, they fall out synchronization. And what is that mean? All that means that what I consider to be happening right now at a given moment, from your perspective, that might be the past or might be the future? What you consider to be happening right now to me that may be the past or the future.

Green Economy

The green economy could easily be the next Industrial Revolution. I mean energy is. you know, we all need energy. We do an annual report which studies much oil is left in the world and demand for oil. And with China, India, South America, Africa even, growing at the rate they're now growing, you know, we think that four or five years from now the demand for fuel will exceed supply. That could push prices, you know, through the roof. For that reason, you know, forget global warming for one minute just for that reason alone, we should be hurrying up, you know, saving on energy and creating alternative sources of energy. And I think those people who invest in this sector, hopefully, you know will get their thanks, and get the right; get their just returns.

Infinity

Infinity is the perplexing idea which basically refers to something that grows without bound, no matter what number you might assign to something, infinity would be larger than that number. We make use of infinity in a number of ways in physics. We image that space conceivably could go on infinitely far. We imagine that in principle the universe could go on for an infinite matter of time. But in our calculations, if infinity turns up as the answer to something that directly measure with a piece of equipment, then we know that our calculation must be wrong. We have used that as a diagnostic over many decades to tell us if you find infinite popping out of your equations for something you can measure, you'd better go back, think about those equations, modify them in some way in order to get a finite answer is that's the only kind of answer that we could ever directly measure.

Purpose of Museums

What museum professionals need to do - what they should be doing, is make their collections and programs work towards the purpose of education. So, whether that means having more hands-on exhibits, becoming involved with other community organisations they should be doing whatever it takes to think about their visitors, to engage people, to educate them, and in that way, they can be instruments of social change. If they have knowledge and understanding of the people who visit, and the people they want to come and visit, they can take this as a starting point for providing exhibitions and services that are relevant to people's lives.,

Black Hole

This simulation shows what you might see. If you are orbiting a black hole. The light and position of background stars around the hole are distorted by its gravity and they seem to spin around. On the right the constellation Orion appears to approach the event horizon the boundary from which nothing can escape. Orion stars look like they become separated and get spun around. Once the hole has passed by Orion reappears on the left and looks normal again, Users can also experiment with different scenarios. This is what you might see if you were traveling towards a black hole with rocket engines slowing your descent. Another simulation mimics free fall into a hole, In the middle the light of the entire universe appears to be concentrated in a bright ring.

Wind turbine

Wind turbine is a device that will convert wind into mechanical movement, which we can use to power water pump or electricity generator. Now the power that the turbine creates is obviously depended on the wind speed, it also depended obviously on the number of sails, the area of the sails and the angle of the sails makes to the wind. So, you can imagine if the turbine blades flat onto the wind, the wind's going to just bend it, if there is slight the angle when the wind hits it, it's going to turn the blades. We can use that for powering things. Now, we're going to have a go, making some of the very, very simple paper windmills, a sort of things that you can make from the bits and pieces lying around home, and use that to drive very small generator to power electronic devices.

Mary Mallon

Mary Mallon, better known as Typhoid Mary, was the first person in the United States identified an asymptomatic carrier of the pathogen associated with typhoid fever. She was presumed to have contaminated 51 people, 3 of whom died, during her job as a cook. She was twice times forcibly separated by public health authorities and died after an overall of nearly 3 decades in isolation. From 1900 to 1907, Mallon worked as a cook in the New York City area for seven families. In 1900, she worked in Mamaroneck, New York, where, within two weeks of her employment, residents developed typhoid fever. In 1901, she moved to Manhattan, where members of the family for whom she worked developed fevers and diarrhoea, and the laundress died. Mallon then went to work for a lawyer; she left after seven of the eight people in that household ended up being ill. In 1906, she took a position in Oyster Bay, Long Island, and within two weeks 10 of the 11 family members were hospitalized with typhoid. She changed jobs again and similar occurred in three more households. She worked as a cook for the family of a wealthy New York banker, Charles Henry Warren, When the Warrens rented a house in Oyster Bay for the summer of 1906, Mallon went along too. From August 27 to September 3, 6 of the 11 people in the household fell victim to typhoid fever. The disease at that time was "unusual" in Oyster Bay, according to 3 medical doctors who practiced there.

Epigenetic Research

Now I like the history and one thing I want to go over briefly is a history of epigenetic research and this is from my perspective now. I got into this field in the early 90s. and what I have here is plotted publications total publications and function of time here. and on a linear graph. so what I did for this is I wanted to show that basically up until around the year 2000. There's an inflection point right around two thousand five right in here where it looks like basically nothing really is happening much in the field of epigenetics. To the point where it's actually going vertical and a lot is happening in field of epigenetics. Now if you plot this rather than on linear paper semi-log paper. what you will find is that what I'm showing is an exponential growth curve for publications in the field of epigenetics, and that in the scientific community. There's a doubling of the epigenetics papers every one and a half to two years. Last year alone we put into publication summers between fifteen and twenty thousand papers which took us 15 years from 1992 to 2005.

The Nobel Academy

For the last 82 years, Sweden's Nobel Academy has decided who will receive the Nobel Prize in Literature, thereby determining who will be elevated from the great and the near great to the

immortal. But today the Academy is coming under heavy criticism both from the without and from within. Critics contend that the selection of the winners often has less to do with true writing ability than with the peculiar internal politics of the Academy and of Sweden itself. According to Ingmar Bjorksten, the cultural editor for one of the country's two major newspapers, the prize continues to represent "what people call a very Swedish exercise: reflecting Swedish tastes." The Academy has defended itself against such charges of provincialism in its selection by asserting that its physical distance from the great literary capitals of the world actually serves to protect the Academy from outside influences. This may well be true, but critics respond that this very distance may also be responsible for the Academy's inability to perceive accurately authentic trends in the literary world.

Brain_Development

The key to forming strong brain architecture is what's known as "serve and return" interaction with adults. In this developmental game, new neural connections form in the brain as young children instinctively serve through babbling, facial expressions, and gestures, and adults return the serve, responding in a very directed, meaningful way. It starts very early in life when a baby coos and the adults interacts and directs the baby's attention to a face or hand. This interaction forms the foundation of brain architecture upon which all future development will be built. It helps create neural connections between all the different areas of the brain, building the emotional and cognitive skills children need in life. For example, here's how it works for literacy and language skills. When the baby sees an object, the adult says its name. This makes connections in the baby's brain between particular sounds and their corresponding objects. Later, adults show young children that those objects and sounds can also be represented by marks on a page. With continued support from adults, children then learn how to decipher writing and, eventually, to write themselves. Each stage builds on what came before.

Hallucination and Personality

A mild form of hallucination is known as a disturbance, and can occur in most of the senses above. These may be things like seeing movement in peripheral vision, or hearing faint noises and/or voices. Auditory hallucinations are very common in schizophrenia. They may be benevolent (telling the subject good things about themselves) or malicious, cursing the subject etc. Auditory hallucinations of the malicious type are frequently heard, for example people talking about the subject behind his/her back. Like auditory hallucinations, the source of the visual counterpart can also be behind the subject's back. Their visual counterpart is the feeling of being looked or stared at, usually with malicious intent. Frequently, auditory hallucinations and their visual counterpart are experienced by the subject together.

Climate Change

Climate change, some adverse effects of climate changes to agricultural productions. Some lands are unsuitable for growing crops. There will be millions of people facing hunger in Africa in the future. Climate change will result in less production and less food. It is difficult for developing countries to deal with climate change due to their financial status and other issues. There are many people living in hunger especially in Africa. The climate change has devastating effects on world economy. The tropical areas on earth are dry and hot, and are originally not suitable for food production. The change of the climate leads to extreme weather conditions such as flood and

hurricane, which exacerbates the food production. As a result, it leads to a continuous decline in food supply annually around 10-17%. And this trend is perceived to be continue in the future by 2070. The regions suffering the most will be some African countries.

Taxonomy

Taxonomy is how scientists classify organisms into different groups based on the characteristics that they share. So, for instance, a good way to think about taxonomy is the US Postal Service. If we want to send a letter to someone, we first start off by addressing it to the nation they are in. By default, we usually assume that's America but it doesn't have to be in England or Costa Rica or Spain. You put their nation or their kingdom. Then within that kingdom, you address it to a slightly more specific level their states. So, for instance, South Carolina would be the same as a phylum. And within that state, you would address it to their city and then to their street number, the street they live on. Then you would address it to say their apartment complex and within that complex, you'd address it by their last name to their family and then finally their first name to the specific person you want to get it to and in that way we're able to weed out all the 400 million people we don't want to send our letter to in America and pinpoint the exact person we want the letter to reach. And in the same way, scientists use a taxonomy chart to pinpoint a living creature and organism and how it relates to everything else in the world.

Arctic and Antarctic

We have first of all the Arctic at the top of the earth and the Antarctic at the bottom, and so the Arctic was named after the Greek word for bear. Now surprisingly it's not after the polar bears that live in the Antarctic or live in the Arctic and based on it's after the little and great bear constellations that can be seen in the sky. Now these regions are opposite in many ways other than just their names and their location on the globe, and so if we look at the arctic first of all, and the Arctic is actually ocean surrounded by land, and so you can see here this is the UK down here and this kind of Russia and then American Canada around here, and so there is a bit of land cover in our ice on the top in the Arctic, which is Greenland here and Macie all this area here. Surprisingly a lot of people don't realize that this isn't actually land. The north pole isn't on land. It's just one big ocean.

Earthquake and Fault

Today, we will discuss the relationship between the fault lines in the Earth's crust and an earthquake. This dislocation of the rock occurs from the Earth's surface, seven kilometers to several hundred kilometers vertically down to the crust. The earthquake's focus is called epicenter which is vertically beneath the interior of the Earth's crust and the energy releases and transfers through epicenter. The faults are the fracture on the Earth's crust. The position of the epicentres can be identified by the faults' maps, looking down from the center of the Earth. It will result in seismic wave which is decreased as it moved away from the epicenter.

Former Civilization

The first thing I want to argue is that the former civilization is running into a pretty profound crisis in its relationships with the rest of nature, which we have been depending on for survival and for flourishing. And this is the most widely and well-recognized fact in relation to climate change and greenhouse gas emissions. Because it's interlocked with a number of other crises as the crisis

endangers access to fresh water and to food. Biodiversity loss on a huge scale, and associated problems of human inequality are also possible to happen. All those together have to be looked at as an interconnected set of really deep, profound crises.

Saturn Rings

Saturn's rings are the most spectacular planetary ring. Consisting of countless particles whose diameters range from microns to meters; these rings orbit the Saturn. In 1610, Galileo was the first man who spotted Saturn's rings. With his 20-power telescope, Galileo might have mistaken Saturn's gaseous ring to surmise that the Saturn system was formed of one planet with two moons as satellites. In 1675, Giovanni Cassini determined that Saturn's "ring" was actually composed of sub-rings with gaps among them. So, the number of Saturn's rings are more than 10. Other planets like Venus, Jupiter, Neptune and Uranus also have rings but not as many as Saturn have.

Human Behaviour

human behaviour is affected by internal and external factors. Determinant is influenced by two factors, the personal factors which are internal and the environmental factors which are external. The personal factors include people's belief on certain things and their individual thinking about it, while the environmental factors include temperature, air pressure and the others' thinking about them. In conclusion, one's determinants are affected by both himself and the environment.

Large Hadron Collider (LHC)

Protons are finally transferred to the LHC (both in a clockwise and an anticlockwise direction) where they are accelerated for 20 minutes to 6.5 TeV. Beams circulate for many hours inside the LHC beam pipes under normal operating conditions. For each collision, the physicist's goal is to count, track and characterize all the different particles. The charge of the particle, for instance, is obvious since particles with positive electric charge bend one way and those with negative charge bend the opposite way. Also, the momentum of the particle can be determined. Large Hadron Collider (LHC) is the world's largest particle accelerator lies in a tunnel. The LHC is a ring roughly 28km around that accelerates protons almost to the speed of light before colliding them head-on. Protons are particles found in the atomic nucleus, roughly one thousand-million-millionth of a meter in size. The LHC starts with a bottle of hydrogen gas, which is sent through an electric field to strip away the electrons, leaving just the protons. Electric and magnetic fields are the key to a particle accelerator.

Language Learning

It is wrong, however, to exaggerate the similarity between language and other cognitive skills, because language stands apart in several ways. For one thing, the use of language is universal-all normally developing children learn to speak at least one language, and many learn more than one. By contrast, not everyone becomes proficient at complex mathematical reasoning, few people learn to paint well, and many people cannot carry a tune. Because everyone is capable of learning to speak and understand language, it may seem to be simple. But just the opposite is true-language is one of the most complex of all human cognitive abilities.

Innovation & Invention

Innovation equals invention often people mistake these two things for the same thing. Innovation equals invention, they are not. Innovation is something that generates value for the world. It makes something faster, better, cheaper. An invention is an idea, a technology, a patent. In and of itself, it does not generate value. So, these two are not the same thing. So, innovation equals invention times commercialization. So, and when we look at this equation of innovation something of value, it requires a new idea and then it requires someone or some organization that is going to commercialize that idea.

Sound Speed and Light Speed

The speed of sound in twenty degrees celsius is three hundred and forty-three meters per second, but the one of light in vacuum is three times ten to the eighth power meters per second. The speed of sound in 20°C is 343 meter per second, and the speed of light in vacuum is three hundred million meters per second. Why do we always see the lightening before we hear the thunder? It's because the speed of light travels much faster than sound.

Dissociation of Personalities

Morton Prince was an American physician and psychologist, his book 'Dissociation of a Personality' was the best-seller at that time. It tells a story of Miss Christine Beauchamp, who was suffering from MPD (Multiple Personality Disorder). Miss Christine Beauchamp has several types of personalities, namely B1, B2 and B3. There was hidden memory in these three personalities, with hallucination among them. Miss Beauchamp was B2. B2 knows about B1, B3 knows both B1 & B2, but B1 knows nothing about B2 or B3. The strongest personality accounts for most of the time and it will take over the others and become the main personality at the end. This case and theory gives great help to crime investigation.

Governmental Blogging

We normally see blogging as a two-way interaction, in which the blogger/author creates the content and the readers interact with or challenge the author. But the case will be much more difficult when it comes to governments, such as the White House. Because people will become coarser and ruder online towards their governments, especially in comment areas. Thus, governments' blogs may go wild and chaotic. And then governments will have to administrate the comments. Once the government starts to impose harsh administration on comment areas, citizens may find the government manipulating what should be said and what should be shown, which contradicts the original intention.

Robots and Human

Why is it difficult to make a robot like a human being? Why cannot robots finish the work easily like human beings? For some tasks, it is easy and simple for humans to complete, but it is very difficult to ask a robot to do what we want because humans and robots have different recognition functions. For example, considering the insights, it is hard for robots to recognize colors because they do not have sensory mechanisms. Artificial intelligence scientists have to devise a sensor that is implanted to robots to enable them to recognize different colors. The sensor has a camera on it to capture pixels, and then will translate the pixels into an image, which is not as easy as expected.

Housing Affordability

The impact on young Australians who are interested in buying a home of their own has been very significant. Most Australians in the normal course of events are people who move through the housing cycle in a way that matches the stages of life that they're at. So, they move out of the family home in their late teens or early 20s as they gain their independence from their families, then they rent save for a home they can afford as either a group, or maybe a couple. And maybe they can upgrade it when they have a family in their middle age, they are more than likely to have paid off their mortgage. And that means they have housing security in their old age. That's no longer the typical housing cycle for Australians; young people generally live at home for much longer than they once did. They generally rent for longer and they're more likely to be saddled with a mortgage not just into their middle age but more often than not into their retirement as well. In fact, in 2006, 65,000 retiree households were still paying off the mortgage. Affordable rent is also an elusive right around Australia.

Animal Behaviour

Understanding why animals do what they do. There are lots of other reasons for studying animal behaviour. Conservation biologists need to know what animals do if they're going to save them. Are those animals social or solitary? How much space do they need and how many mates do they have? Sometimes you can't predict the outcome of the research. Fernando Nottebohm started out being interested in how birds know what to sing. Yet his research eventually led to a complete overhaul of the entire field of neurobiology, a totally unanticipated yet utterly monumental effect.

Performance of Genders

You can see that the two charts, each give quite a different picture of the performance of boys and girls in the two key subjects of Math and English. It shows that in English, girls consistently outperform boys over a period of 6 years, achieving scores about 10% above their male peers. There is quite a different picture when we look at the Math results with no real difference between genders in the results. What is the explanation for these key differences? To answer this question, researchers look at biological and cognitive factors, and a range of social factors. The interaction between these different components in early childhood development are seen as maintained and reinforced in the school context. And this leads to distinct gender patterns of behavior and skills with direct consequences for school performance and achievement. The ultimate uses of this evidence (are) to show that biological factors, such as patterns of cognitive developments are closely linked to social factor, such as learned gender categories. These cognitive skills are learned both pre-school and subsequently at school, supported by the responses of teachers, creating a reinforcement of patterns.

Globalization

Twenty or thirty years ago, if a chicken caught a cold and sneezed and died in a remote village in East Asia, it would have been a tragedy for the chicken and its closest relatives, but I don't think there was much possibility of us fearing a global pandemic and the deaths of millions. Twenty or thirty years ago, if a bank in North America lent too much money to some people who couldn't afford to pay it back and the bank went bust, that was bad for the lender and bad for the borrower, but we didn't imagine it would bring the global economic system to its knees for nearly a decade. This is globalization. This is the miracle that has enabled us to tranship our bodies and our minds and our words and our pictures and our ideas and our teaching and our learning around the planet

ever faster and ever cheaper. It's brought a lot of bad stuff, like the stuff that I just described, but it's also brought a lot of good stuff

Australian Cities

Australia's location is important for the world's exports, and its international trade is also important. Since Australia has a large territory with vast, uninhabited areas, all towns are scattered around. The Australian people are mainly living in five cities: Melbourne, Sydney, Perth and Brisbane and Adelaide. The most special one is Perth, which is one of the most isolated cities in the world. However, this does not affect its state to be one of the largest cities in Australia. Most large companies, like the two leading companies, Telstra and Qantas, they are both based in Perth.

Creativity

Here are three important factors in creativity: people, process and product. The most important one is the process. First you have to create the right person through education with a creative mind. Second, you have to create the right process to have people engaged in innovation process. Third, you need to find the right problem to work on. Human beings can survive and prosper largely depending on the creativity they have. If you identify and assess the creativity of a finished product, it is taken as a proxy for the creativity of the person who produced such a product. Therefore, a creative product should be surprising, original, beautiful and useful. People should have factors necessary for genius, ability, and right mindset. You should improve to imitate and change insight look from new perspectives, innovatively create something with imagination to expand conceptual spaces

Library Introduction

There are many functional areas and services in the library. You'll see the service desk after entering the library and you can have these services at the service desk. There are computers on each floor, by which you can gain access to the internet and check emails and library catalogues. Follow the orange signs and you will find printers. Then, follow the instructions to use them. Remember to bring student cards. You have to use printers with your card. If necessary, you can ask the staff at the front desk to help you.

Biological Forgetting

People forget things every day including experiences, feelings and thoughts. We call this process biological forgetting. Remembering is hard for people, and people try to overcome biological forgetting. Human' memory is not fixed, but it can be reconstructed and shaped by the past. Since ancestors, we have always been trying to improve our memory.

Soot

Soot, which comes from combustion of many different things, is black so it's a strong absorber. In fact, it's second only to CO₂ in terms of warming, so it's actually ahead of methane, which you hear a lot about. The interesting thing about soot and aerosols' impact on climate is that their lifetimes are so much shorter. So, if we can reduce the soot we can make changes within months versus tens of

years. It's not to say we should ignore the CO2 and the greenhouse gases but it could buy us some time while we actually do the right strategies to reduce the greenhouse gases.

Bilingual Parents

Many parents communicate and educate their children with two languages, probably because they both know more than one language, or they come from different countries. Most of these parents think this can benefit their children's language learning. But actually, kids will get confused when their parents use different languages from each other to describe the same object. If one parent sticks to one language, and the other one sticks to another language, their children will not be confused any more.

Old Paris

Paris is very old-there has been a settlement there for at least 6000 years and its shape has been determined in part by the River Seine, and in part by the edicts of France's rulers. But the great boulevards we admire today are relatively new, and were constructed to prevent any more barricades being created by the rebellious population; that work was carried out in the middle 19th century. The earlier Paris had been in part a maze of narrow streets and alleyways. But you can imagine that the work was not only highly expensive, but caused great distress among the half a million or so residents whose houses were simply razed, and whose neighbourhoods disappeared. What is done cannot usually be undone, especially when buildings are torn down.

Listening Skills

The most important factor in communicating more effectively is actually the opposite of talking. It's improving your listening skills. You must learn to start asking questions and listen attentively without interruptions. As a rule, you pay attention to people you most value. When you pay close attention to another person when they are talking, you signal to that person that you very much value them and the content of their comments. This is very flattering to another person and it causes them to respond warmly to your attentiveness. The major reason that most people have poor listening skills is that they're busy preparing a reply while the other person is still speaking. In fact, they're not even listening closely to what the other person is saying. They are thinking of other things and formulating their comments to be ready as soon as the other person takes a breath. Effective communication requires that you face the other person directly, lean slightly forward and hang on to every word, listen as though there were nothing else in the world more fascinating to you than what the other person is saying.

Sleep Investment

The sleep associated consequences are more significant than you may realize. For example, in the spring, when we lose one hour of sleep, there is a subsequent 24% relative increase in heart attacks. In contrast, in the fall, in the autumn, when we gain an hour of sleep, there is a 21% reduction in heart attacks. Isn't that incredible? I should also note that we see similar changes in things, such as road traffic accidents, strokes, and tragically, suicide rates as well. In fact, even the economy suffers with certain stock market returns, taking a downswing following the shift to daylight saving time and that one hour of lost sleep. This is how fragile our brains, our bodies, and

even our societies are, when it comes to sleep loss. But said more positively, even just small increases in sleep can have immediate as well as long-term health benefits.

Cheese

As early as 8000 BCE, the earliest Neolithic farmers living in the Fertile Crescent began a legacy of cheese-making almost as old as civilization itself. The rise of agriculture led to domesticated sheep and goats, which ancient farmers harvested for milk. But when left in warm conditions for several hours, that fresh milk began to sour. Its lactic acids caused proteins to coagulate, binding into soft clumps. Upon discovering this strange transformation, the farmers drained the remaining liquid - later named whey - and found the yellowish globs could be eaten fresh as a soft, spreadable meal. These clumps, or curds, became the building blocks of cheese, which would eventually be aged, pressed, ripened, and whizzed into a diverse cornucopia of dairy delights. The discovery of cheese gave Neolithic people an enormous survival advantage. Milk was rich with essential proteins, fats, and minerals. But it also contained high quantities of lactose - a sugar which is difficult to process for many ancient and modern stomachs. Cheese however, could provide all of milk's advantages with much less lactose. And since it could be preserved and stockpiled, these essential nutrients could be eaten throughout scarce famines and long winters.

Bee Language

Honey bees do a waggle dance to direct other bees to the source of nectar. The dancing bees like this one can be halted by a headbutt from another bee. Now research has found that this headbutt is actually a warning signal. A feeding station was set up in the lab to mimic a source of nectar, then foraging bees were introduced to the dangers at the station, such as competition from rival colonies. When foragers returned to the hive they stopped bees dancing. Scientists think the behavior warns dancers of a dangerous source of nectar.

Storytelling

In the realm of film, we find a universal language that transcends borders and connects hearts. Cinema is not just entertainment; it's a mirror reflecting our societies, a canvas for our dreams, and a portal to diverse worlds. Its power lies in its ability to evoke emotions, challenge perceptions, and inspire actions. Furthermore, the impact of cinema extends beyond the screen. It stimulates economies through job creation and tourism, as iconic movie scenes make locations into landmarks. It also preserves culture and history, capturing the essence of an era for future generations to witness. As we, the youth, forge our paths, let's recognize the profound influence of cinema.

ANSWER SHORT QUESTIONS

What do you stir in the milk to make a cake?

Answer: Flour

What is the quickest way to travel from Hong Kong to Paris?

Answer: Plane / by plane / airplane

When the writer of a book is unknown, what word is used for the author?

Answer: Anonymous / anonymity

What do things become when they come to a halt?

Answer: Stationary / static / pause / quiescence

What do we call a company or organization that gives money to a sports or arts event in exchange for advertising?

Answer: Sponsor / patron / supporter

What is the main building of a large company or an organization?

Answer: headquarters

Where do passengers wait for airplanes?

Answer: terminal / airport

Which major branch of science deals with classification of living things?

Answer: Biology

If someone lives in an urban area, where do they live?

Answer: City / town

What is a collective term for cows and bulls, especially on a farm?

Answer: Cattle

What do people wear if they can't see very well?

Answer: Glasses / contact lenses / spectacles

Which item of cutlery has several prongs usually three?

Answer: fork

What is the term used for the principal male character opposite a hero in a movie or a story?

Answer: Villain / Antagonist / devil / monster

What is a list of historical events arranged in time order?

Answer: Chronology / timeline

Which is the longest: a decade, a millennium or a century?

Answer: Millennium

In which season would people be least likely to go snow skiing?

Answer: Summer

What do we call the line between a sunset and the sea?

Answer: Sea-sky-line / horizon

What do we call the date that a piece of work must be finished by?

Answer: Deadline / due date

What do we call the ship that runs underwater?

Answer: submarine

What subject involves the study of the Periodic Table?

Answer: chemistry

What is the name of male sheep?

Answer: ram

On what geographical location would someone be living if their country is surrounded by water on all sides?

Answer: Island

How many years are there in a bicentennial?

Answer: two hundred

How do you call a student that has finished his first year?

Answer: Sophomore

If a building is one thousand meters high, from where do we measure the height?

Answer: Sea level

What do you need to submit for completing a degree in the university?

Answer: Dissertation / Thesis

What is the famous canal linking the Mediterranean Sea with the Indian Ocean?

Answer: Suez

What's the colour of the medal that a champion gets?

Answer: Golden / gold

What kind of dictionary provides synonyms, antonyms and related words?

Answer: Thesaurus

What does ophthalmologist specialize in?

Answer: Eye operations / eye

What do we call the extra performance that actors give?

Answer: Encore

How many hemispheres does the equator divide earth into?

Answer: Two

What is the wet place does crocodile prefer to live in?

Answer: Swamp / marsh

If you invented something, what can you apply for to prevent others copying your invention?

Answer: Patent

What is a word or expression that has the same or nearly the same meaning as another in the same language?

Answer: Synonym

When a person's blood alcohol level is higher than the standard range, what activity can't the person do?

Answer: Driving

What is the place you share bedroom with your classmates?

Answer: Dormitory

What is the device that shows the time of the day according to the shadow of sunlight?

Answer: Sundial

What is the force that draws objects toward a planet's center?

Answer: Gravity / gravitation

How many years does a millennium have?

Answer: One thousand

Apart from coffee and hot chocolate, what beverages also contain caffeine?

Answer: Tea / coke / cocoa

What do we call the study of living things?

Answer: Biology

Where can people go to borrow books?

Answer: Library / bibliotheca

What is the legal document protecting someone's intellectual property?

Answer: Patent

What special document does most people need to carry when they travel between countries?

Answer: passport

What stellar system does the earth belong to?

Answer: Solar system

What is the long speech that is spoken by only one actor in a film or play?

Answer: Monologue / soliloquy

What do you call students in universities who have not yet graduated?

Answer: Undergraduates

What kind of equipment is used to protect motorbike riders' brains from injury?

Answer: helmet

Which is the longest: a decade, a millennium or a century?

Answer: millennium

What do you call a difficult time when economic activities slow down, and there are more people unemployed?

Answer: Recession / depression

What do we call a person's move to a more important job or rank in a company?

Answer: Promotion

What is the horizontal line that separates the globe into two halves?

Answer: Equator

How many hemispheres does the equator divide earth into?

Answer: Two

What will you hear after a flash of lightning?

Answer: Thunder

What do we call one of four equal parts of something?

Answer: Quarter

In statistics, what is a circle divided into many parts called?

Answer: pie chart

What is the hard object in the center of peaches, apples and pears?

Answer: Core / stone / kernel

If you are celebrating a biannual activity, how many years ago did you celebrate it last time?

Answer: Half a year

What is the way animals conserve energy to survive the winter?

Answer: Hibernation

What does the colour green help for?

Answer: Sight / eyesight

What do you call the persons who study religions?

Answer: Theologians / theologists

What do we call the chair a king or a queen sits in?

Answer: Throne

What do you call the word type like 'UK', or 'USA'?

Answer: Acronym

What do we call the bags that contain possessions and people take with when traveling?

Answer: Luggage / baggage / suitcase

How many days are there in a fortnight ?

Answer: Fourteen

What shows how many people can be in a place like an apartment?

Answer: Capacity

What do we call a person who writes biographies of others?

Answer: Biographer

What do we call a document sent by email?

Answer: Attachment

What is the top surface inside the room?

Answer: Ceiling

How do you describe a line that segments a circle?

Answer: Chord

What do we call a child who will soon be a teenager?

Answer: Preteen / tween

What is the opposite of 'guilty'?

Answer: Innocent

What is the barrier that can prevent floods from damaging our home?

Answer: Dam

What do we call a person who can speak several languages?

Answer: Multilingual / polyglot

What includes everything in the world such as stars and planets?

Answer: Universe / cosmos

How do we describe a person who enjoys the company of others?

Answer: Extrovert

What do we call a room just below the roof of a house, often used for storing things?

Answer: Attic / loft

What do we call a person who does a job without being paid?

Answer: Volunteer

What do we call a person who is hurt in a criminal case?

Answer: Victim

What do we call a person who pays rent to the landlord?

Answer: Lessee / tenant

What do we call a bicycle with two seats and two pairs of handles?

Answer: Tandem

Who is a person who gives evidence in court?

Answer: Witness

What is the verb that describes traveling on boat?

Answer: Cruise / voyage / sail

What is the room in which you keep things when you don't need them?

Answer: Storeroom

What device is used for breathing?

Answer: Ventilator

What do we call a device that cuts grass?

Answer: Mower



WRITING



SUMMARIZE WRITTEN TEXT

America and India IT

Consider the current situation: like their counterparts in the United States, engineers and technicians in India have the capacity to provide both computer programming and innovative new technologies. Indian programmers and high-tech engineers earn one-quarter of what their counterparts earn in the United States; Consequently, India is able to do both jobs at a lower dollar cost than the United States: India has absolute advantage in both. In other words, it can produce a unit of programming for fewer dollars than the United States, and it can also produce a unit of technology innovation for fewer dollars. Does that mean that the United States will lose not only programming jobs but innovative technology job, too? Does that mean that our standard of living will fall if the United States and India engage in the international trade? David Ricardo would have answered no to both questions - as we do today. While India may have an absolute advantage in both activities, that fact is irrelevant in determining what India or the United States will produce. India has a comparative advantage in doing programming in part because of such activity requires little physical capital. The flip side is that the United States has a comparative advantage in technology innovation partly because it is relatively easy to obtain capital in this country to undertake such long-run projects. The result is that Indian programmers will do more and more of what U.S. programmers have been doing in the past. In contrast, American firms will shift to more and more innovation.

Back to Countryside

Half a lifetime ago I made a lifestyle choice to exchange a city terrace for a farm cottage. I knew it was a good idea because I had been there before. Born and reared on a farm I had been seduced for a few years by the idea of being a big shot that lived and worked in a city rather than only going for the day to wave at the buses. True, I was familiar with some of the minor disadvantages of country living such as an iffy private water supply sometimes infiltrated by a range of flora and fauna (including, on one memorable occasion, a dead lamb), the absence of central heating in farm houses and cottages, and a single-track farm road easily blocked by snow, broken down machinery or escaped livestock. But there were many advantages as I told my wife back in the mid Seventies. Town born and bred, eight months pregnant and exchanging a warm, substantial Corstorphine terrace for a windswept farm cottage on a much lower income, persuading her that country had it over town might have been difficult.

Children Watching TV

Why and to what extent should parents control their children's TV watching? There is certainly nothing inherently wrong with TV. The problem is how much television a child watches and what effect it has on his life. Research has shown that as the child watches and what effect it has on his life. Research has shown that as the amount of time spent watching TV goes up, the amount of

time devoted not only to homework and study but other important aspects of life such as social development and physical activities decreases. Television is bound to have its tremendous impact on a child, both in terms of how many hours a week he watches TV and of what he sees. When a parent is concerned about the effects of television, he should consider a number of things: what TV offers the child in terms of information and knowledge, how many hours a week a youngster his age should watch television, the impact of violence and sex, and the influence of commercials.

What about the family as a whole? Is the TV set a central piece of furniture in your home! Is it flicked on the moment someone enters the empty house? Is it on during the daytime? Is it part of the background noise of your family life? Do you demonstrate by your own viewing that television should be watched selectively?

Written Language

The world engages in improving literacy of reading and writing, but it is not that important now. What is text/written language anyway? It's an ancient technology for storing and retrieving information. We store information by writing it, and we retrieve it by reading it. Six thousand to 10,000 years ago, many of our ancestors' hunter -- gatherer societies settled on the land and began what's known as the agricultural revolution. That new land settlement led to private property and increased production and trade of goods, generating a huge new influx of information. Unable to keep all this information in their memories, our ancestors created systems of written records that evolved over millennia into today's written language. But this ancient technology is already becoming obsolete. Text has run its historic course and is now rapidly getting replaced in every area of our lives by the ever - increasing array of emerging technologies driven by voice, video, and body movement rather than the written word. In my view, this is a positive step forward in the evolution of human technology, and it carries great potential for a total positive redesign of education.

Greenland Shark

An international team of scientists is set to go to Arctic to investigate the Greenland shark longevity mystery. The shark is known to be the longest living vertebrate animal on the planet Earth. One of the members is Dr. Holy Shiels, a physiologist and senior lecturer in the Faculty of Life Sciences at the University of Manchester. She will be the only British scientist in the team to study Greenland shark, which is believed to be the vertebrate animals and mammals with the longest living. The shark is reported to have lived for more than 200 years, and possibly close to or more than 400 years. The shark is both a hunter and a scavenger, that feed on seals and other animals including polar bears and whales. It is also known as one of the largest sharks, reaching to five and a half meters (18 feet), very close to the size of a great white. The research team is commissioned by the Greenland government and will conduct the research on board the multi-purpose research vessel Sanna, operated by the Greenland Institute of Natural Resources. A Greenland shark is estimated to be able to live for 400 years according to Science Magazine. Professor Shiels expects to gather sufficient data of Greenland shark, a top predator in the Arctic Sea. She wanted to find a clue of

how Greenland shark is able to survive in the deep sea of the Arctic Sea, by examining how its heart and circulation work in its normal habitat, as she specializes in the cardiovascular function. "Greenland sharks are classified as data deficient," Shiels said. "This means that we don't know enough to put measures in place to protect them from over-fishing, pollution or climate change."

Fiber

Currently, Americans only eat about 16 grams of fiber - the parts of plants that can't be digested - per day. That's way less than the 25 to 30 grams that's recommended. There are so many reasons why, from fast-food marketing to agriculture subsidies, but one contributing factor is the slow death of cooking, and the rise of the restaurant meal. Americans now spend more on food at restaurants than they do at grocery stores, but restaurant food tends to have even less fiber than the food we would otherwise eat at home. One problem seems to be that restaurant meals aren't typically loaded with two of the best sources of fiber, unprocessed fruits and vegetables. A revealing study from 2007, in which researchers interviewed 41 restaurant executives, showed that restaurants think fruits and vegetables are too expensive to feature prominently on the menu, and "61 percent said profits drive menu selections." They also opposed labelling certain menu items as healthier choices, saying that would be "the kiss of death." So people like to eat out, and when they do, they prefer mushy, fiber-free comfort foods, but that's a pretty dangerous road to go down.

Humans and Animals

Humans are animals but essentially, they are the only rational animals. When a human sees an object, they can create the idea of what makes that object unique (a tree). This is called abstraction. Animals merely see the object as a single thing (the tree). Because we can separate the idea of a thing (its concept) from the thing itself, we can combine it in our mind with other things to make new things that don't exist in the physical world (a tree that talks, combining 'tree' and 'human'). This concept of abstraction is unique to man and is the reason that humans have been able to create such incredible structures and objects that we surround ourselves with in life. A bird can make a nest but unless it is in his nature to build homes with heating, he will never be able to conceive of the idea of combining his home with a heating source. The foundation of this idea is from the philosophical concept that certain things in their essence (their being or existence) is what determines their differentness. Using the same concept, we can say that the difference between animals and inanimate objects is sentience (the ability to sense). Only animals have senses (a tree can't feel the cold, a stone can't smell the earth). Animals have senses, and humans have senses, therefore humans are animals. But only humans have rationality.

Yellow Stone

Most Americans know about Yellowstone National Park, the first national park in the US, which was established in 1872. Probably less well-known is the fact that Native American tribes were removed from the land to make the park possible.

Yellowstone is not an anomaly. Many Native American tribes once lived on sprawling ancestral lands that the U.S. government either forcibly took from them or purchased through treaties whose provisions were subsequently nullified. Some of this land later became part of the nation's 400-plus national parks and sites, with the US government providing the historical interpretations. These interpretations, however, either downplayed or ignored the Indigenous point of view.

Creating tribal national parks allows Indigenous people to be in charge of the narrative. Simply put, tribal national parks are national parks created on tribal lands. The first of these tribal national parks was Frog Bay Tribal National Park in Wisconsin, opened by the Red Cliff Band of Lake Superior Chippewa in 2012. The park is on the state's Bayfield peninsula, across from the famous Apostle Islands National Lakeshore.

Several more tribal national parks are in the works, as Indigenous people seek to preserve and protect their land, while creating recreational opportunities for their members and others, but there's another important reason for these parks' creation: They allow the tribes to tell their own stories.

Deepest Lake

Lake Baikal is located in southern Russia, near the border of Mongolia. Its depth of 5,300 feet makes it the world's deepest lake. The second-deepest lake, Lake Tanganyika in east Africa, is 4,710 feet deep by comparison. Crater Lake, the deepest lake in the U.S., is 1,900 feet deep.

Lake Baikal's 12,200-square-mile size also makes it Earth's largest. That size, by the way, makes it comparable in volume to the entire Amazon basin. For scale, it reportedly takes about 330 years for one water molecule to flow from inlet to inlet.

So how did Lake Baikal get so massive? About 25 million years ago, Lake Baikal formed through fractures and shifting within Earth's crust. It wasn't Lake Baikal as we now know it, though. Experts believe it was a series of lakes, similar to the Great Lakes in the U.S. While scientists aren't positive how Lake Baikal went from many lakes to the behemoth it is today, they do have theories. It could've been sinking earth, erosion, earthquakes, increased water from melting glaciers, although it's likely a mix of these factors and more.

Now, that unifying change took place in the Pliocene Epoch (about 5.3 to 2.5 million years ago), but this lake is hardly finished growing. It's expanding at a rate of 0.7 inches every year, the same speed at which Africa and South America are drifting apart. At this speed, some scientists believe Lake Baikal is actually an ocean in the making.

Women in University

If women are so far ahead of men, why are they so far behind? Reports from both sides of the Atlantic show that female students dominate university courses, yet women still do not make it to the top. A report on inequality in the UK said last week that girls had better educational results than

boys at 16, went to university in greater numbers and achieved better degrees once they got there. "More women now have higher education qualifications than men in every age group up to age 44," the report said.

In the US, 57 per cent of college graduates in 2006-07 were women. Women form the majority of all graduates under 45. Yet few women make it to the boards of companies in either country. In the UK, the proportion of women on FTSE 100 boards rose fractionally from 11.7 per cent to 12.2 per cent last year, according to the Cranfield University School of Management, but that was only because of a fall in the size of the boards.

In the US, women accounted for 15.2 per cent of board seats on Fortune 500 companies, according to Catalyst, the research organization, which said the numbers had barely budged for five years. The hopeful way of looking at this is that the rising generation of female graduates has yet to reach director age. Give it 10 years and they will dominate boards as they do universities. If that were true, however, we would surely see the number of women director numbers moving up by now. The first year that women college graduates outnumbered men in the US was 1982. These graduates must be entering their 50s - prime director age.

Telescope

On a starry night in Padua 400 years ago, Galileo first turned a telescope toward the sky. It might seem the most natural of actions-after all, what else does one do with a telescope? But in 1609, the instrument, which had been invented only the year before by Dutch opticians, was known as a "spyglass," in anticipation of its military uses. The device was also sold as a toy. When Galileo read of it, he quickly set about making a much more powerful version. The Dutch telescopes magnified images by 3 times; Galileo's telescopes magnified them by 8 to 30 times.

At the time, astronomy, like much of science, remained under the spell of Aristotle. Almost 2,000 years after his death, the giant of Greek philosophy was held in such high regard that even his most suspect pronouncements were considered unimpeachable. Aristotle had maintained that all celestial objects were perfect and immutable spheres, and that the stars made a dizzying daily journey around the center of the universe, our stationary Earth. Why scrutinize the sky? The system had already been neatly laid out in books. Astronomers "wish never to raise their eyes from those pages," Galileo wrote in frustration, "as if this great book of the universe had been written to be read by nobody but Aristotle, and his eyes had been destined to see for all posterity."

In Galileo's day, the study of astronomy was used to maintain and reform the calendar. Sufficiently advanced students of astronomy made horoscopes; the alignment of the stars was believed to influence everything from politics to health.

Journey Through Words

Literature is a timeless treasure trove of human expression and imagination. Through the written word, authors have crafted stories, poems, and plays that transport readers to different worlds, evoke emotions, and challenge perspectives. Let's embark on a journey to explore the rich tapestry of literary works that have left an indelible mark on our hearts and minds. One of the most celebrated literary works is "To Kill a Mockingbird" by Harper Lee. This novel, set in the American

South during the 1930s, delves into issues of racism, justice, and morality through the eyes of young Scout Finch. With its powerful themes and memorable characters, "To Kill a Mockingbird" continues to be a thought-provoking and influential work. In the realm of poetry, the works of Emily Dickinson stand out. Her concise yet profound poems explore themes of nature, love, and the human experience. Dickinson's unique style and use of imagery have made her one of the most beloved and studied poets in American literature. Shakespeare's plays, including "Romeo and Juliet," "Hamlet," and "Macbeth," remain timeless classics. His mastery of language, intricate plots, and exploration of universal themes like love, ambition, and power have ensured his enduring legacy in the world of literature. Contemporary literature has also produced remarkable works.

Arundhati Roy's "The God of Small Things" is a modern masterpiece that weaves a complex narrative of family, love, and societal norms in India. The novel's lyrical prose and evocative storytelling have earned it critical acclaim and a dedicated readership. Literary works have the power to transcend time and place, offering readers a window into the human condition. Each work carries its own unique voice and perspective, inviting us to reflect on our own lives and the world around us. As we delve into the pages of these literary treasures, we embark on a journey of discovery, empathy, and enlightenment, finding solace and inspiration in the beauty of words.

Swedish Forestland

The growing season in Sweden ranges from about 240 days in the south to 120 days in the north. Less than one-tenth of Sweden's land area is under cultivation. Most arable land is found in southern Sweden, but there are arable parcels up to the Arctic Circle. Wheat, barley, sugar beets, oilseeds, potatoes, and staple vegetables dominate in the south, while in the north hay and potatoes are the main crops. In Sweden as a whole, animal agriculture is more significant than cereal farming.

Dairy cows are important in all parts of the country, while pig and poultry raising are concentrated in the extreme south. The yields of Swedish farms are among the highest in the world. Environmental problems, however, have made it necessary to reduce the use of fertilizers.

About half of Swedish forestland is privately owned, about one-fourth company-owned, and about one-fourth publicly owned. Forest work used to be complementary winter employment for small farmers using their horses; today forestry is carried on year-round by a small workforce and large, modern machinery. Nearly three-fourths of all Swedish farms have timberland. The average regrowth and harvest time for spruce and pine is about 50 years in the south and roughly 140 years in the north. Since the late 19th century, forestry in Sweden has been conducted on a sustained-yield basis, which establishes a ratio between cutting and new growth that is strictly enforced. Modern large-scale forestry methods have been subject to severe criticism, and major reforms were implemented in the 1990s. A thorough mapping and inventory of key woodland habitats was undertaken in the mid-1990s to identify areas with high biodiversity values.

Rising Temperature

You may have heard about global warming. It seems that in the last 100 years the earth's temperature has increased about half a degree Celsius. This may not sound like much, but even half a degree can have an effect on our planet. According to the U.S. Environmental Protection Agency (EPA) the sea level has risen 6 to 8 inches (15 to 20 cm) in the last 100 years.

This higher temperature may be causing some floating icebergs to melt, but this will not make the oceans rise. Icebergs are large floating chunks of ice. In order to float, the iceberg displaces a volume of water that has a weight equal to that of the iceberg. Submarines use this principle to rise and sink in the water, too.

However, the rising temperature and icebergs could play a small role in the rising ocean level. Icebergs are chunks of frozen glaciers that break off from landmasses and fall into the ocean. The rising temperature may be causing more icebergs to form by weakening the glaciers, causing more cracks and making ice more likely to break off. As soon as the ice falls into the ocean, the ocean rises a little.

If the rising temperature affects glaciers and icebergs, could the polar ice caps be in danger of melting and causing the oceans to rise? This could happen, but no one knows when it might happen.

South Africa

The area that is now South Africa has been inhabited by humans for millennia. The San, the original inhabitants of this land, were migratory people who lived in small groups of about 15 to 20 people. They survived by fishing and hunting and by gathering roots and

other wild foods. They did not build permanent dwellings but used rock shelters as temporary dwellings. Around 2,000 years ago Khoikhoi pastoralists migrated to the coast.

In the eastern part of present-day South Africa, iron-working societies date from about 300 A.D. The Sotho-Tswana and Nguni peoples arrived in this region around 1,200 A.D. They lived by agriculture and stock farming, mined gold, copper and tin and hunted for ivory and built stone-walled towns. Over the centuries, these societies had diverse contacts with the Khoisan.

Strife between the San and the Khoikhoi developed over competition for game; eventually the Khoikhoi became dominant. These peoples lived in the western part of present-day South Africa and are known collectively as the Khoisan.

Carbon Dioxide

Carbon dioxide, mostly produced by human activities, is the most significant one of greenhouse gases and has caused the rise of the global temperature and the sea level, so businesses should take responsibilities to tackle the problems inherited in the business models, and World Wildlife Fund partners with companies should ensure the sustainability of the entire market.

Negotiation

Negotiation is a common process in business to mainly solve business conflicts between both parties. Compromise is a basic negotiation state in which both parties give up something that they want in order to get something else they want more. Compromise usually occurs in unfair parties when there is a fixed pie to be divided up, and whatever on one side gets, the other side loses.

In compromise situations, neither side gets all of what they really want, but they each make concessions in order to reach an agreement that is acceptable to both. Both parties usually can reach win-win concept through compromise. However, negotiation cannot resolve all the conflict if one party is unwilling to resolve the problem.

Australian Education

When Australians engage in debate about educational quality or equity, they often seem to accept that a country cannot achieve both at the same time. Curriculum reforms intended to improve equity often fail to do so because they increase breadth or differentiation in offerings in a way that increases differences in quality. Further, these differences in quality often reflect differences in students' social backgrounds because the 'new' offerings are typically taken up by relatively disadvantaged students who are not served well them. Evidence from New South Wales will be used to illustrate this point. The need to improve the quality of education is well accepted across OECD and other countries as they seek to strengthen their human capital to underpin their modern, knowledge economies. Improved equity is also important for this purpose, since the demand for high level skills is widespread and the opportunities for the low skilled are diminishing. Improved equity in education is also important for social cohesion. There are countries in which the education system seems primarily to reproduce existing social arrangements, conferring privilege where it already exists and denying it where it does not.

Even in countries where the diagnosis might be less extreme, the capacity of schooling to build social cohesion is often diminished by the way in which schools separate individuals and groups.

Beauty Contest

Since Australians Jennifer Hawkins and Lauryn Eagle were crowned Miss Universe and Miss Teen International respectively, there has been a dramatic increase in interest in beauty pageants in this country. These wins have also sparked a debate as to whether beauty pageants are just harmless reminders of old-fashioned values or a throwback to the days when women were respected for how good they looked.

Opponents argue that beauty pageants, whether Miss Universe or Miss Teen International, are demeaning to women and out of sync with the times. They say they are nothing more than symbols of decline.

In the past few decades Australia has taken a real step toward treating women with dignity and respect. Young women are being brought up knowing that they can do anything, as shown by inspiring role models in medicine such as 2003 Australian of the Year Professor Fiona Stanley.

Almost all of the pageant victors are wafer thin, reinforcing the message that thin equals beautiful. This ignores the fact that men and women come in all sizes and shapes. In a country where up to 60 percent of young women are on a diet at any one time and 70 percent of school girls say they want to lose weight, despite the fact that most have a normal BMI, such messages are profoundly hazardous to the mental health of young Australians.

Gender Studies

Gender studies is a dynamic field of academic inquiry that has evolved significantly over the years. It encompasses the study of gender roles, identities, and the impact of societal norms and expectations on individuals.

In recent decades, gender studies has expanded its focus beyond a binary understanding of gender to recognize the complexity and diversity of human identities. It acknowledges that gender is not limited to just male and female but exists on a spectrum. This shift has been essential in acknowledging and respecting the experiences of transgender and non-binary individuals.

Another significant development in gender studies is the intersectionality perspective. It recognizes that gender cannot be studied in isolation but is deeply intertwined with other aspects of identity, such as race, ethnicity, class, and sexuality. This approach has led to a more comprehensive understanding of the experiences of marginalized groups and has informed social justice movements.

Furthermore, gender studies has played a crucial role in raising awareness about issues such as gender-based violence, workplace discrimination, and unequal access to resources. It has been instrumental in advocating for policy changes and promoting social change to address these issues.

Additionally, gender studies has found its way into various disciplines, influencing fields like psychology, sociology, and public health. It has enriched the academic landscape by encouraging scholars to consider the role of gender in their research. In conclusion, gender studies has undergone significant transformation, embracing a more inclusive and intersectional perspective. It continues to be a driving force in promoting gender equality, challenging stereotypes, and fostering a deeper understanding of the complex interplay between gender and society.



World of Elephants

Elephants, the largest land animals on Earth, captivate us with their sheer size, intelligence, and gentle demeanour. These magnificent creatures have long held a special place in our hearts and the animal kingdom, representing a harmonious blend of power and grace. Elephants are renowned for their exceptional memory, social bonds, and complex communication skills. These qualities are prominently displayed within their tight-knit family groups, which are led by a matriarch - the oldest and wisest female. The family structure and intricate relationships within elephant herds are awe-inspiring and provide valuable insights into animal behavior and cognition. These gentle giants are also known for their emotional depth. Elephants can display a wide range of emotions, from joy and playfulness to grief and empathy. They mourn their dead, even returning to the remains of deceased herd members years after their passing, showcasing their profound emotional connections.

Despite their remarkable intelligence and emotional capacity, elephants face significant challenges in the wild. Habitat loss, poaching for ivory, and human-wildlife conflicts threaten their survival. Conservation efforts are critical to ensuring the continued existence of these magnificent creatures. Efforts to protect and conserve elephants include anti-poaching initiatives, the establishment of

protected areas, and public awareness campaigns to reduce demand for ivory products. Additionally, responsible tourism practices promote ethical interactions with elephants in captivity, ensuring their well-being. Elephants are not just charismatic megafauna; they are vital to the ecosystems they inhabit. They disperse seeds, create water holes, and shape their environment, making them keystone species with an essential role in maintaining biodiversity.

Koalas

Koalas are often called 'koala bears', probably because they look so cute and cuddly and resemble teddy bears. These animals weigh anywhere from 9 to 29 pounds, and they're about 2 feet tall. While they do have a close resemblance to small bear cubs, koalas aren't bears at all. Koalas are actually marsupials and are more closely related to Australia's kangaroos and wombats. Marsupials have pouches to carry their offspring during early development stages. A baby koala, also known as a joey, is born blind and earless. It grows in the mother's pouch for about six months. After that, the joey rides around on its mother's back for another six months, using its mother's pouch to continue to feed during this time. Joeys are completely blind at birth, and their eyesight doesn't improve too much as they mature. Overall, koalas have poor vision. They aren't entirely blind, but their long-range sight is low. Because of this, these marsupials rely more on other senses to navigate their daily lives. To compensate for their eyesight, koalas have incredible hearing, which helps them stay ahead of predators and other koalas. They also have a great sense of smell they use to find food and detect koalas nearby. Interestingly, male koalas have scent glands on their chests that they use to mark trees and attract mates. They rub their chests up and down trees, which releases a strong, musky oil to mark their territory.

Climate and Food

When major crops wither, it can have knock-on effects across the ocean and show up on your grocery bill. Inflation has been climbing in the United States at the highest rate in 40 years, up 9.1 percent over the past 12 months, much of it the result of spiking food and energy prices. The surge has been egged on by the pandemic-beleaguered supply chain and by Russia's invasion of Ukraine. But climate change is becoming a driver of inflation, too. Experts are warning that heat, flooding, drought, wildfires and other disasters have been wreaking economic havoc, with worse to come.

"If we wish to control inflation, we must address climate change now," David A. Super, a professor of law and economics at Georgetown, wrote in The Hill. Beyond crops, the changing climate has driven up the price of lumber as well as insurance premiums.

"Heatflation" might already have something to do with escalating food costs around the world. A heat wave in India this spring devastated wheat plants, leading it to ban exports. In the United States last year, searing heat and drought in the Great Plains scorched the wheat crop and also enabled wheat-munching grasshopper populations to flourish. The grain's price nearly doubled to \$10.17 a bushel, its highest level since 2008. Extreme temperatures endanger livestock, too: The heat wave that struck much of the country in June caused thousands of cattle to die of heat stress in Kansas.

Dandelion Seeds

The extraordinary flying ability of dandelion seeds is possible thanks to a form of flight that has not been seen before in nature, research has revealed. The discovery, which confirms the common plant among the natural world's best fliers, shows that movement of air around and within its parachute-shaped bundle of bristles enables seeds to travel great distances - often a kilometer or more, kept afloat entirely by wind power. Researchers from the University of Edinburgh carried out experiments to better understand why dandelion seeds fly so well, despite their parachute structure being largely made up of empty space. Their study revealed that a ring-shaped air bubble forms as air moves through the bristles, enhancing the drag that slows each seed's descent to the ground. This newly found form of air bubble - which the scientists have named the separated vortex ring - is physically detached from the bristles and is stabilized by air flowing through it. The amount of air flowing through, which is critical for keeping the bubble stable and directly above the seed in flight, is precisely controlled by the spacing of the bristles. This flight mechanism of the bristly parachute underpins the seeds' steady flight. It is four times more efficient than what is possible with conventional parachute design, according to the research. Researchers suggest that the dandelion's porous parachute might inspire the development of small-scale drones that require little or no power consumption. Such drones could be useful for remote sensing or air pollution monitoring.

Stars

Since the dawn of recorded civilization, stars played a key role in religion and proved vital to navigation, according to the International Astronomical Union. Astronomy, the study of the heavens, may be the most ancient of the sciences. The invention of the telescope and the discovery of the laws of motion and gravity in the 17th century prompted the realization that stars were just like the sun, all obeying the same laws of physics. In the 19th century, photography and spectroscopy - the study of the wavelengths of light that objects emit - made it possible to investigate the compositions and motions of stars from afar, leading to the development of astrophysics.

A star develops from a giant, slowly rotating cloud that is made up entirely or almost entirely of hydrogen and helium. Due to its own gravitational pull, the cloud begins to collapse inward, and as it shrinks, it spins more and more quickly, with the outer parts becoming a disk while the innermost parts become a roughly spherical clump.

According to NASA, this collapsing material grows hotter and denser, forming a ball-shaped protostar. When the heat and pressure in the protostar reaches about 1.8 million degrees Fahrenheit, atomic nuclei that normally repel each other start fusing together, and the star ignites. Nuclear fusion converts a small amount of the mass of these atoms into extraordinary amounts of energy - for instance, 1 gram of mass converted entirely to energy would be equal to an explosion of roughly 22,000 tons of TNT.

The life cycles of stars follow patterns based mostly on their initial mass. These include intermediate-mass stars such as the sun, with half to eight times the mass of the sun, high-mass stars that are more than eight solar masses, and low-mass stars a tenth to half a solar mass in size. The greater a star's mass, the shorter its lifespan generally is, according to NASA. Objects smaller

than a tenth of a solar mass do not have enough gravitational pull to ignite nuclear fusion - some might become failed stars known as brown dwarfs.



WRITE ESSAY

The lazy journalism has become commonplace in today's digitalized world. How do you define 'lazy journalism'? What is the cause?

With the increase of new digital media available online, the role of the library has become obsolete. Therefore, universities should only procure digital materials rather than constantly update textbooks. Discuss both the advantages and disadvantages of this position and give your own point of view.

Some schools schedule all the exams at the end of each year, while other schools schedule them throughout the whole year. What are the advantages and disadvantages of these two strategies? Which one do you think is better?

Nowadays, it is increasingly more difficult to maintain the right balance between work and the other aspects of one's life, such as leisure pursuits with family members. How important do you think this balance is? What are the reasons that make some people think that this is hard to achieve?

Television serves many useful functions. It helps people to relax. Besides, it can also be seen as a companion for the lonely. To what extent do you agree with this? Explain why with your own experience.

Being a journalist is one of the most difficult jobs in the world. To what extent, you agree with it?

Should marketing in companies which produce consumer goods, like food and clothing, place emphasis on the reputation of the company or short-term strategies like the discounts and special offers? Why?

What is your view on the idea that it takes failure to achieve success?

The purpose of education is for workers and good members of society, or individuals to fulfill their life. Which opinion do you agree with?

Some people claim that instead of having to prepare for huge numbers of exams in school, children should learn more. To what extent do you agree with this statement?

What are the advantages and problems of cheaper public transportation? Give your opinion from your own experience.

Pop music should have a university degree. Do you agree or disagree?

Online materials like music, movies, xxx are accessible at no cost. Do you think online material should be accessed at no cost? Support

Is a competitive environment in school or university good or bad? Discuss and give your own experiences as examples.

Climate change is a concerning global issue. Who has responsibilities to solve the problem, governments, large companies, or individuals?

With the increase of new digital media available online, the role of the library has become obsolete. Therefore, universities should only procure digital materials rather than constantly update textbooks. Discuss both the advantages and disadvantages of this position and give your own point of view.

Because university degrees can get people jobs with higher salaries, university students should pay full cost for their education. Do you agree or not?

Do you think the design of buildings affects positively or negatively where people live and work?

Some people point that experiential learning (i.e. learning by doing it) can work well in formal education. However, others think a traditional form of teaching is the best. Do you think experiential learning can work well in high schools or colleges?

Nowadays television has become an essential part of life. It is a medium for disseminating news and information, and for some it acts as a companion. What is your opinion about this?

The information revolution brought about by modern mass communications has both positive and negative consequences for individuals and society. To what extent do you agree with this statement? Give the reason with your own experience.

Many education systems assess students using formal written examinations. Those kinds of exams are a valid method. To what extent do you agree or disagree? Give examples with your own experience.

Nowadays, work leaves little time to people's personal life. How widespread do you think it is? How can we solve the problems caused by the shortage of time?

Some universities deduct marks from students' work if it is given in late. What is your opinion? Suggest some alternative actions.

Employers involve workers in decision-making process about products and services. What are the advantages and disadvantages of such a policy?

It is argued that getting married before finishing studying or getting established in a good job is foolish. To what extent do you agree or disagree?

For children, using films to study is as important as studying literature. To what extent do you agree or disagree?

What can make learning a new foreign language unimportant? Give your example and explanation.

Some people claim that competition improves the quality of our private and professional lives. Others believe that hyper competition is bad for individuals and for society in general. What is your opinion?

What are the problems and the benefits for high school students of studying plays and other works for theatre that were written centuries ago? Do you agree with it? Use your own experience to discuss it.

In the company, some people think the employers should involve the workers in decision making. Discuss the advantages and disadvantages.

In our technological world, the number of new inventions has been increasing. Please make an example with its impact on our life, and explain if it is beneficial or detrimental

In your opinion, what are the advantages and disadvantages of extreme or adventure sports?

Some people say there should be a maximum wage for high-paying jobs. Do you support that? Can you give your point of view or your own experience?

It is harder for children growing up in the 21st century than it was in the past. How far do you agree with this statement? Give your opinions.

Many people choose to emigrate to other countries. What are the advantages and disadvantages of living in a foreign country? Discuss with your own experience.

Nowadays, it is increasingly more difficult to maintain the right balance between work and the other aspects of one's life, such as leisure pursuits with family members. How important do you think this balance is? What are the reasons that make some people think that this is hard to achieve?

As cities expand, governments should look forward to creating better networks of public transport available for everyone rather than building more roads for vehicle owning population. To what extent do you agree or disagree?

Should marketing for consumer goods companies like clothing and food emphasize reputation or short-term strategies like discounts and special offers?

Space travel is fantastic these days, but there are many issues – such as environmental problems – that we should be focusing on. What are your views on the allocation of public funding to space travel?

Xenophobia has accelerated rapidly in the western countries. According to you, what solutions can be proposed by government and individuals?

The mass media, such as TV, radio and newspapers, have an influence on people, particularly on younger generations. It plays a pivotal role in shaping the opinions of people, especially teenagers and young people. To what extent do you agree with this? Please give examples.

In many towns and cities, large shopping malls are replacing small local shops. Do you think this is a positive development? Give your reasons and examples.

Poor lifestyles have a negative impact on people's health. List some unhealthy lifestyles and discuss what government services could help?

Teenagers should receive lessons on principles of personal finance, such as investing and debt. To what extent do you agree with this statement?

The world's governments and international organizations confront a multitude of global problems. Which do you think is the most pressing problem for the inhabitants of our planet and give the solution?

Some countries have free health services. However, some people claim that those who live unhealthy lives should not receive free health services. Do you agree or disagree with this statement?

“In the future, people will work fewer hours at their jobs than they do now.” Do you agree with the statement? Please support your opinion with your own experience.

Some people think human behavior can be changed by laws, while others think laws have little effect. What is your opinion?

Wealthy nations are required to share their wealth among poorer countries. What is your opinion?

Global problems are related to governments and international organizations. What are the problems and what is your solution?

Artificial intelligence is good in the teaching field. To what extent do you agree with this?

Do you agree that mindfulness practices should be integrated into educational curriculum?

Do you agree that social networks should regulate fake news more strictly?

To what extent do you believe that cultural exchange programs can promote global peace and understanding?

Do you believe that the pursuit of happiness is the most important goal in life?

Do you think that it is necessary to preserve endangered languages?

Do you believe that social media platforms should regulate online content more strictly?

What are the main reasons people struggle to maintain healthy eating habits in today's society?



READING



FILL IN THE BLANKS R/W

Each of us is born into and raised in a particular "time world" — an environment with its own _____ (Answer- rhythm) to which we entrain ourselves. Certain cultures have related to time as a _____ (Answer-cyclical) phenomenon, in which there is no pressure or future anxiety. The whole of existence goes around: the cycle of the _____ (Answer-seasons), of planting and harvesting, the daily return of the sun, of birth and death. In circular time there is no pressing _____ (Answer-need) to achieve and create newness, or to insatiably produce more than is needed to simply survive. Additionally, there is no fear of death. Such societies have successfully integrated the past and future into a peaceful sense of the present. They also honored the wisdom of elders who held the knowledge of the past — upon which the future was clearly linked.

Choices:

- 1.area, shape, rhythm, inclination
- 2.cyclical, conventional, recycling, cylindrical
- 3.days, season, arrangements, periods
- 4.issue, point, need, cause

Neurotechnology is advancing rapidly, creating new possibilities for reading and manipulating our minds. But what are the ethical implications of these developments? And how can we ensure that our mental privacy and _____ (Answer autonomy) are not violated by companies or governments that want to access our brain data? These are some of the questions that a group of experts have been trying to answer. They _____ (Answer- propose) five new human rights for the age of neurotechnology, or neuro rights: mental privacy, personal identity, free will, fair access to mental augmentation, and protection from bias. Some countries and states have _____ (Answer-already) taken steps to enshrine these rights in law. Chile became the first nation to amend its constitution to include the right to mental privacy and the right to free will. Colorado _____ (Answer-passed) legislation that would protect neural data as sensitive health data.

Choices:

- 1.certainly, harmony, prosperity, autonomy
- 2.propose, report, decide, execute
- 3.already, yet, too, still
- 4.realized, met, tended, passed

Shakespeare is widely regarded as the greatest playwright of all time, but he did not create his stories by _____ (Answer-himself). He borrowed and adapted the plots of his plays from various sources, such as old tales, Italian writers, prose fictions, historical accounts, and classical works. He was _____ (Answer-keen) a reader who had a moderate acquaintance with the literary achievements of other men and of other ages. He read books in different languages and genres, and was influenced by some of his contemporaries such as Marlowe, Spenser, and Sidney. However, Shakespeare was not a _____ (Answer-mere) imitator or plagiarist. He transformed his sources by excluding undramatic material, developing characters, rearranging the plot, introducing a wider philosophical _____ (Answer-outlook), and elevating the dialogue and the imaginative writing. He infused his plays with his own genius, creativity, and originality, making them unique and timeless. He also added his own touches of humor, irony, and tragedy, creating a rich and complex dramatic experience for his audiences. Shakespeare's plays are not just _____ (Answer-copies) of his sources, but masterpieces of his own.

Choices:

- 1.his own, his, him, himself
- 2.keen, descriptive, satisfactory,
- 3.valid, vain, mere, coherent
- 4.enhancement, equivalent, estate, outlook
- 5.elements, prospects, copies, vehicles

Imagine weaving through the city's concrete jungle, camera in hand. You're not just a tourist catching selfies, you're a street photographer, hunting for raw moments and telling the city's story. But this chase comes with its own set of _____ (Answer-hurdles) First, there are the legal hoops. Privacy laws and copyright rules can trip you up fast. Asking for permission, especially when emotions run high, requires tact and respect. It's a constant balance between capturing the real and respecting _____ (Answer-boundaries). Tech, while handy, throws its own curveballs. The flood of images online makes standing out tough. Finding your unique voice, cutting through the noise, and making your work _____ (Answer-matter) takes constant reinvention and self-reflection. So, the next time you see a photographer navigating the urban maze, remember the challenges they face. Their lens is a window into the city's heartbeat, capturing fleeting moments that would _____ (Answer-otherwise) be lost. Respect their dedication, for they are the storytellers of the streets, preserving the ever-evolving story of life on the streets.

Choices:

- 1.bundles, puddles, hurdles, huddles
- 2.backgrounds, boundaries, edges, shallows
- 3.proove, matter, falter, encroach
- 4.except, so far, otherwise, despite

As humanity's presence in space extends from weeks to months, the culinary landscape beyond Earth's atmosphere is undergoing a remarkable transformation. The early days of space travel _____ (Answer- were marked) by simple, utilitarian food options - freeze-dried meals and energy bars designed for efficiency rather than enjoyment. However, the _____ (Answer- quest) for sustainable long-term space habitation has sparked innovation in space cuisine. Advanced hydroponic systems and bioregenerative life support systems are being developed to enable the cultivation of fresh _____ (Answer- produce) in microgravity conditions. These efforts aim not only to improve astronauts' physical health but also to provide psychological comforts through the familiar act of cooking and eating fresh food. Adapting recipes and cooking methods to different gravity levels and preserving food quality and safety in _____ (Answer- extreme) environments are among the challenges of space cuisine.

Choices:

1. has marked, were marked, that marked, which were marked
2. investigation, quest, detour, pursuit
3. produce, dishes, products, equipment
4. habitual, extreme, unworldly, sophisticated

Exploring the greenery of a city can reveal a surprising diversity, akin to the layers of a forest canopy. Urban trees, from the towering elms _____ (Answer- lining) the streets to the potted plants on balconies, create a layered tapestry of vegetation. This urban canopy does more than just beautify; it cleans the air, provides shade, and even reduces noise _____ (Answer- pollution). It's fascinating how, within the _____ (Answer- confines) of concrete and steel, these plants thrive, adapting to their surroundings in inventive ways. Some trees have roots that navigate the urban soil landscape, _____ (Answer- while) others seem to reach out from the smallest cracks in the pavement. This urban greenery, much like a natural forest, supports a range of wildlife, creating a micro-ecosystem in the heart of the city. Next time you walk through your city, look up and around; you're likely _____ (Answer- wandering) through an urban forest.

Choices:

1. shining, spinning, lining, dinning
2. interference, rate, participation, pollution
3. lanes, facet, degrees, confines
4. what, while, which, that
5. wandering, ratifying, capsizing, embedding

Australia is facing extreme weather conditions as a severe heatwave and heavy rainfall _____ (Answer-hit) different parts of the country. While some regions are experiencing temperatures above 40C, others are dealing with floods and cyclones. The Pilbara region in Western Australia is the worst affected by the heatwave, with temperatures reaching up to 48.3C on Sunday. The _____ (Answer-record) of 50.7C, set in January 2022, could be broken as the heatwave continues into the next week. Meanwhile, a low-pressure system has brought torrential rain to parts of the Northern Territory, causing floods and _____ (Answer- disrupting) supplies. Some areas have received more than six times their usual January rainfall. The system is expected to move outwards and bring relief to the affected areas. In addition, a tropical cyclone named Kirrily _____ (Answer-is forecast) to strike the coast of Queensland later this week, bringing strong winds and heavy rain.

Choices:

- 1.hit, ceased, overruled, pushed
- 2.point, frustration, record, limit
- 3.Squandering, projecting, expanding, disrupting
- 4.forecast, that forecast, will forecast, is forecast

The impact of drought-resistant crops could be transformative, particularly for smallholder farmers in developing countries, who are often the most vulnerable to the effects of climate change. By _____ (Answer: cultivating) these crops, farmers can sustain their livelihoods and provide food for their communities even in challenging conditions. However, the adoption of these crops also raises concerns. Issues such as biodiversity _____ (Answer: loss), dependency on specific seed companies, and the long-term ecological impacts of genetically modified organisms are part of an ongoing debate. Despite these _____ (Answer: concerns), the potential benefits of drought-resistant crops are significant. They represent a crucial step in adapting our agricultural systems to the changing climate. As research continues and these crops become more sophisticated, they could play a key role in ensuring global food _____ (Answer: security)? in an increasingly unpredictable environment.

Choices:

1. resurrecting, demonstrating, cultivating, devastating
2. loss, conflict, shift, draft
3. concerns, facilities, editions, fees
4. security, inevitability, support, emergence

Think about all the different bosses you've had or heard about. Some are strict and by-the-book, while others are more laid back. Over time, experts in management have come up with several

ways to describe these styles. Early on, people thought leaders were just born with certain

_____ (Answer: traits) that made them great. Later, the focus shifted to what good leaders do, _____ (Answer: rather than) what they are born with. For example, some leaders are really good at giving clear instructions, while others are great at _____ (Answer: inspiring) their teams to be creative. Then there's situational leadership, which is all about adapting your style to fit the team's needs or the task at _____ (Answer: hand). This approach is like a coach who knows when to push the team hard and when to give a pep talk. Understanding these different styles can help anyone become a better leader, whether you're running a business, coaching a sports team, or even _____ (Answer: organizing) a community event.

Choices:

1. poses, certifications, traits, policies
2. instead, rather than, because of, however
3. observing, documenting, reporting, inspiring
4. point, guide, ease, hand
5. witnessing, achieving, organizing, reviewing

Regular exercise is associated with a lower risk of developing certain cancers, including _____ (Answer: those) of the head, neck, and lungs. The benefits of exercise extend even to those who have been _____ (Answer: diagnosed) with cancer, as they tend to live longer than those who don't exercise. The risk reduction is particularly significant for head and neck, breast, and lung cancers. Interestingly, the impact of exercise on cancer risk _____ (Answer: appears) to be dose-dependent, with more exercise leading to a greater reduction in risk. These findings, while based on observational data, paint a nuanced picture of the relationship between exercise and cancer. Despite the inability to establish a cause-and-effect relationship, the data suggests that regular exercise could potentially stave off cancer. Furthermore, individuals who exercise regularly and later develop cancer are still less likely to die of any cause, indicating a _____ (Answer: longevity) benefit. These insights provide ample _____ (Answer: incentive)? to maintain an exercise habit for its potential cancer-preventive effects.

Choices:

1. whose, those, which, them
2. claimed, exposed, diagnosed, confronted
3. demands, permits, suggests, appears
4. conformity, Longevity, margin, terminal
5. incentive, status, policy, pursuit

A team of Indian scientists has achieved a historic _____ (Answer: feat) by successfully landing a spacecraft at the lunar south pole, where no one has ever gone before. The Chandrayaan-3 mission, launched in July 2023, was the first to reach the unexplored _____ (Answer: region) that is believed to contain reservoirs of frozen water. The mission, which cost only \$75m, showed the world that India is a major player in space exploration and that a moon lander can be constructed at a _____ (Answer: fraction) of the cost of other countries. The lander detected sulphur on the surface of the moon and showed that lunar soil is a good insulator. The scientists, including several senior female researchers, _____ (Answer: celebrated) their achievement at the control room in India, inspiring millions of young people across the country and beyond.

Choices:

- 1.peat, feat, pleat, defeat
- 2.scale, order, region, topic
- 3.plunge, fraction, price, peak
- 4.abandoned, celebrated, moderated, surpassed

This summer, a group of 38 intrepid explorers embarked on a journey into the _____ (Answer: heart)? of the Amazon rainforest aboard the "Corocoro", a vessel specifically designed for navigating the intricate waterways of this _____ (Answer: lush) wilderness. As they journeyed along the mighty Amazon River and its tributaries, they were enveloped by the symphony of exotic birdsong and the vibrant tapestry of the rainforest's diverse flora and _____ (Answer: fauna). One particularly poignant highlight was a visit to a community-led reforestation project, where local villagers _____ (Answer: shared) their stories of resilience and their commitment to preserving the rainforest for future generations. This encounter underscored the profound interconnectedness between the Amazon's natural world and the lives of the people who depend on it. Leaving the rainforest was bittersweet, as the group returned with a deeper _____ (Answer: appreciation) for the Amazon's breathtaking beauty and its critical role in the health of our planet. Their journey served as a powerful reminder of the responsibility we all share to protect this irreplaceable treasure for generations to come.

Choices:

- 1.cycle, Compilation, heart, source
- 2.literacy, lush, neutral, adequate
- 3.guts, fauna, portions, variability
- 4.supervised, negotiated, ignore, shared
- 5.flexibility, expansion, maturity, appreciation

Want to find your way to stress relief? This recipe is for you: combine a passion for baking with the mindful practice of meditation. Studies show that baking can be a powerful tool for _____ (Answer: improving) mental well-being, offering a sense of calm and accomplishment. The key is to be present in the _____ (Answer: moment) savoring the tactile sensations of kneading dough, the rhythmic whisking of eggs, and the sweet aroma of rising bread. This mindful approach not only _____ (Answer: enhances) the baking experience but also provides a welcome escape from daily anxieties. Research suggests that baking can trigger the _____ (Answer: release) of endorphins, the body's natural mood boosters. The repetitive motions of mixing and kneading can be calming and meditative, helping to quiet the mind and _____ (Answer: reduce) stress. Additionally, the act of creation and the satisfaction of producing something delicious can boost confidence and self-esteem.

Choices:

- 1.improving, being improved, improvement, improved
- 2.moment, point, success, duration
- 3.exhibits, enhance, consumes, postpones
- 4.texture, theory, trends, release
- 5.reduce, interpret, satisfied, gather

The growing global influence of China has led to a surge in interest in learning Mandarin Chinese, now one of the most _____ (Answer: widely) spoken languages in the world. To cater to this demand, the comprehensive language course "Mandarin Mastery" has been developed, providing an immersive learning experience for adult learners. This course starts with the basics of Mandarin phonetics and characters and gradually _____ (Answer: advances) to complex linguistic structures and cultural nuances. Utilizing a blend of traditional and modern teaching _____ (Answer: methods), including interactive digital tools, the course offers an engaging and effective way to achieve fluency. It covers a wide range of topics, from everyday conversation to business communication, _____ (Answer: ensuring) learners are well-equipped to navigate various social and professional settings. "Mandarin Mastery" focuses on language proficiency and _____ (Answer: aims) to deepen learners' understanding of Chinese culture and history, providing a holistic approach to language learning.

Choices:

- 1.traditionally, faintly, widely, extremely
- 2.test, view, advance, flows, drifts
- 3.methods, sectors, journals, reactions
- 4.ensuring, achieving, mentioning, deciding
5. discusses, aims, seals, causes

Bhutan used to be one of the most isolated nations in the world. Developments including direct international flights, the Internet, mobile phone networks, and cable television have _____ (Answer: increasingly) modernized the urban areas of the country. Bhutan has _____ (Answer: balanced) modernization with its ancient culture and traditions under the guiding philosophy of Gross National Happiness (GNH). Rampant _____ (Answer: destruction) of the environment has been avoided. The government takes great _____ (Answer: measures) to preserve the nation's traditional culture, identity and the environment. In 2006, Business Week magazine rated Bhutan the happiest country in Asia and the eighth-happiest in the world, _____ (Answer: citing) a global survey conducted by the University of Leicester in 2006 called the "World Map of Happiness".

Choices:

1. beneficially, increasingly, contemporarily, mechanically
2. juggled, opted, balanced, altered
3. destruction, embodiment, vanity, execution
4. prides, measures, effects, allowance
5. submitting, citing, reviewing, proving

Team Lab's digital mural at the entrance to Tokyo's Skytree, one of the world's monster skyscrapers, is 40 meters long and immensely detailed. _____ (Answer: However) massive this form of digital art becomes - and it's a form _____ (Answer: subject to) rampant inflation - Inoko's theories about seeing are based on more modest and often pre-digital sources. An early devotee of comic books and cartoons (no surprises there), then computer games, he recognized when he started to look at traditional Japanese art that all those forms had something _____ (Answer: in common): something about the way they captured space. In his discipline of physics, Inoko had been taught that photographic lenses, _____ (Answer: along with) the conventions of western art, were the logical way of transforming three dimensions into two, conveying the real world onto a flat surface. Japanese traditions employed 'a different spatial logic', as he said in an interview last year _____ (Answer: But) with j-collabo.org, that is 'uniquely Japanese'.

Choices:

1. however, whereas, whichever, wherever
2. subject to, related with, apart from, based on
3. in fact, as whole, in common, in the same terms
4. apart from, further afield, along with, out of
5. Thus, In addition, Therefore, But

Alzheimer's is the most common cause of dementia. It affects memory, thinking, and behaviour and it's serious enough to _____ (Answer: interfere) with daily life. The main risk factor is increasing age, and most people with Alzheimer's are 65 or older. Until now, this was thought to be a human-only disease, but this may not be the case. The brains of three species of dolphins _____ (Answer: stranded) along the coast of Scotland have shown the classic markers of human Alzheimer's disease - _____ (Answer: hinting) that dolphins too may be plagued by the disease. The researchers still don't know why this brain _____ (Answer: degeneration) could be happening in odontocetes, but it could explain why some groups of whales, dolphins, and porpoises run aground in shallow water.

Choices:

- 1.interfere, engage, comply, associate
- 2.commanded, stranded, unbranded, expanded
- 3.perspective, transmission, survey, retention
- 4.inseminating, tinting, hinting, legitimating
- 5.tissue, area, degeneration, activity

Jupiter's moon Io is the most volcanically active world in the solar system, _____ (Answer: with) hundreds of eruptions occurring every year. These eruptions constantly reshape the surface of Io, erasing any signs of impact craters that may have formed from collisions with asteroids and comets. However, a keen-eyed amateur astronomer from Sweden has _____ (Answer: discovered) what may be the first crater ever seen on Io. Jesper Sandberg was browsing through old images from the Galileo spacecraft, which explored the Jupiter system from 1995 to 2003, when he _____ (Answer: noticed) a small, circular feature on Io's surface. The feature, which is about 100 meters across, appears to be a fresh impact crater surrounded by a bright ejecta blanket. Sandberg reported his finding to the Planetary Society, which confirmed that the feature had not been previously _____ (Answer: identified) or catalogued. The discovery of this crater could provide valuable _____ (Answer: insights) into the geology and history of Io, as well as the frequency and size of impactors in the outer solar system.

Choices:

- 1.therefore, with, whose, which
- 2.implicated, discriminated, discovered, assembled
- 3.noticed, conducted, dismissed, obliged
- 4.converted, identified, sealed, retracted
- 5.insights, fallacies, connections, backgrounds

The Amazon is undeniably one of the world's greatest rivers. It is the largest river by _____ (Answer: volume), and its basin is home to the Amazon Rainforest, the world's richest and most-varied biological reservoir. The Amazon might also be the world's longest river - _____ (Answer: depending) on whom you ask. Most scientists believe the South American river is at least 4,000 miles (6,400 km) long - still shorter than the Nile, which is widely held to be the world's longest river at about 4,132 miles (6,650 km). Others, however, have _____ (Answer: asserted) that the Amazon is actually much longer. One would think a definitive measurement would be easy to obtain with modern technology; if its _____ (Answer: namesake) online company can deliver cans of unicorn meat by drone, then determining the Amazon's length shouldn't be too hard. However, it's actually proven very difficult.

Choices:

- 1.state, subject, name, volume
- 2.focusing, turning, depending, pending
- 3.perceives, amends, triggers, plays
- 4.keepsake, sake, forsake, namesake

In the final episode of a three-part podcast series, Christie Taylor explores some of the challenges and opportunities that cannabis presents for society, both now and in the future. One of the topics that Taylor examines is the possibility of growing cannabis compounds in labs, _____ (Answer: without) the need for cultivating the plant itself. This could offer a more efficient and consistent way of producing cannabinoids, the active ingredients in cannabis, for medical and recreational purposes). Taylor talks to researchers who are working on developing methods to synthesize cannabinoids using yeast, bacteria, or algae. Another topic that Taylor discusses is the environmental impact of cannabis production, which is often _____ (Answer: overlooked) or underestimated. Growing cannabis, whether legally or illegally, consumes a lot of water, energy, land, and fertilizers, and generates greenhouse gas _____ (Answer: emissions) and waste. Taylor interviews experts who are studying the ecological footprint of cannabis and looking for ways to make it more sustainable and less harmful to the planet. Choices:

- 1.regarding, without, due to, although
- 2.angles, sequences, phases, purposes
- 3.overlooked, tailored, contained, handled
- 4.conditions, emissions, resources, customs

Polar bears are amazing animals that can _____ (Answer: survive) in the harsh Arctic conditions. Their fur is one of their secrets, as it is hollow, lightweight, and insulating. Now, a team of researchers from China has created a synthetic fibre that _____ (Answer: mimics) the properties of polar bear fur. The researchers used a chemical process to make the fibre, which has a

porous core and a smooth surface. They claim that the fibre is as warm as down feather, but _____ (Answer: much) thinner and more durable. To test their claim, they knitted a sweater with the fibre and measured its thermal performance. They also tested the fiber's strength and stretchability. The researchers say that the fibre could have many applications, especially for making clothing for extreme cold environments. They suggest that the fibre could be used for military uniforms, space suits, and winter sports. They also say that the fibre is eco-friendly and biodegradable. However, not everyone is _____ (Answer: convinced) by the researchers' claims. Some experts have criticized the lack of data and details in their paper. They say that more research and comparison are needed to _____ (Answer: verify) the fiber's advantages.

Choices:

- 1.tend, stretch, survive, confirm
- 2.calculates, pastes, mimics, requests
- 3.more, too, much, such
- 4.preferred, refused, convinced, suspected
- 5.expose, verify, appear, consent

High levels of anxiety can _____ (Answer: strain) a person's ability to control their attention, and this effect has been shown to increase with age, according to an analysis of dozens of studies. Ran Shi, then at the University of Sydney in Australia, and her colleagues combined the results of 58 studies that measured the attention and anxiety level of 8292 children and adults in total, who either self-reported their anxiety or _____ (Answer: demonstrated) it through behavioral tests. These studies examined various components of attention control. This included inhibition, which involves preventing attention from being pulled towards irrelevant stimuli; switching, which involves keeping attention focused on a relevant task; and updating, which involves evaluating how relevant new information is and old information. Across all studies, the researchers found that _____ (Answer: overwriting) overall attention control was significantly worse in people who are more anxious. Highly anxious groups, whether or not they had been clinically diagnosed, had similar _____ (Answer: deficits) in attention control.

Choices:

- 1.refine, strain, demure, recite
2. fulminated, Remonstrated, demonstrated, experimented
3. overfertilizing, overcontrolling, overwriting, overevaluating
- 4.deficits, splits, elicits, solicits

As a Society for Human Resource Management (SHRM) article emphasizes: "Discrimination costs employers millions of dollars every year, not to mention the countless hours of lost work time, employee stress and the _____ (Answer: negative) public image that goes along with a

discrimination lawsuit." Equal employment opportunity isn't just the right thing to do, it's the law. Specifically, it's a series of federal laws and Executive Orders designed to _____ (Answer: eliminate) employment discrimination. Illegal discrimination is the _____ (Answer: practice) of making employment decisions such as hiring, compensation, scheduling, performance evaluation, promotion, and firing on factors unrelated to performance. There are _____ (Answer: based) currently seven categories protected under federal law: age, disability, genetic information, national origin, pregnancy, race and color, religion and sex.

Choices:

1. constructive, negative, responsive, imaginative
2. eliminate, subordinate, alternate, illuminate
3. practice, partition, trajectory, accomplice
4. based, basis, base, basing

The cognitive score of people in the study who ate the most flavonols declined 0.4 units per decade more slowly than those who ate the fewest flavonols. The results held even after _____ (Answer: adjusting) for other factors that can affect memory, such as age, sex and smoking, according to the study recently published in *Neurology*, the medical journal of the American Academy of Neurology. Flavonols are cytoprotective, meaning they protect cells, including neurons, so it's _____ (Answer: plausible) there could be a direct impact on cognition. Plants contain over 5,000 flavonoid compounds, which play roles in producing cell growth, fighting environmental stress and attracting insects for pollination. Flavonols, a type of flavonoid, have been shown in animal and some human studies to reduce inflammation, a major _____ (Answer: trigger) for chronic disease, and are rich sources of antioxidants. They may also be a marker of better overall diet quality, or even greater health _____ (Answer: consciousness). People who are more health conscious may do things to preserve their cognition, or maybe being more health conscious is a by-product of better cognition.

Choices:

1. consulting, adjusting, automation, advertising
2. irresistible, purposeful, plausible, detrimental
3. nuance, module, fact, trigger
4. intervention, cognition, protection, consciousness

There are two main ways that have been proposed to _____ (Answer: reduce) blame. The first method comes from political science and law. A recent paper with seven studies and agent-based modeling suggested that the best thing to do to reduce blame is to focus on _____

(Answer: praising) as many people as possible on success, and blame as narrowly as possible after failure. In the _____ (Answer: context) of COVID-19, this would mean focusing as much as possible on the people who have done the right thing and the successes along the way, and blame should be used extremely rarely to meet judgment on very narrow targets (e.g., a failed health minister who _____ (Answer: violated) social norms for his own gain). This method, in Path Based Model of blame, would work by changing when blame is used.

Choices:

1. abuse, release, reduce, redress
2. praising, promising, preserving, praying
3. context, confrontation, text, construct
4. departed, established, violated, met

Turning now to the heart of the study, in two divisions an attempt _____ (Answer: was made) to change the supervision so that the decision levels were _____ (Answer: pushed down) and detailed supervision of the workers reduced. More general supervision of the clerks and their supervisors was introduced. In addition, the managers, assistant managers, supervisors and in group methods of leadership, which they assistant supervisors of these two divisions were _____ (Answer: trained) to use as much as their skill would permit during the experimental year. For easy reference, _____ (Answer: endeavoured) the experimental changes in these two divisions _____ (Answer: will be labelled) the 'participative program'!

Choices:

1. was made, making, made, makes
2. put off, turned over, set up, pushed down
3. fired, overlapped, trained, deducted
4. expanded, gathered, covered, endeavoured
5. will be labelled, being labelled, have labelled, labelled

Over the past two decades around a third of the world's mangrove swamps have been _____ (Answer: converted) for human use, with many turned into valuable shrimp farms. In 2007 an economic study of such shrimp farms in Thailand showed that the commercial profits per hectare were \$9,632. If that were the only _____ (Answer: factor), conversion would seem an excellent idea. However, proper _____ (Answer: accounting) shows that for each hectare government subsidies formed \$8,412 of this figure and there were costs, too: \$1,000 for pollution and \$12,392 for losses to ecosystem services. These _____ (Answer: comprised) damage to the supply of foods and medicines that people had taken from the forest, the loss of habitats for fish, and less buffering against storms. And because a given shrimp farm only stays _____ (Answer: productive) for three or four

years, there was the additional cost of restoring them afterwards: if you do so with mangroves themselves, add another \$9,318 per hectare. The overall lesson is that what looks _____ (Answer: beneficial) only does so because the profits are retained by the private sector, while the problems are spread out across society at large, appearing on no specific balance sheet.

Choices:

1. rearranged, exchange, conserved, converted
2. index, element, choice, factor
3. accounting, percentage, aggregation, division
4. comprised, contained, neglected, augmented
5. productive, interactive, distinctive, collective
6. beneficial, immediate, moderate, modest

A new study published in Cell Reports reveals that oral _____ (Answer: exposure) to nanoplastics, or plastic particulates smaller than 500 nanometers, can affect brain function in mice by inducing inflammation in the gut. The researchers found that nanoplastics were more readily taken up by macrophages in the intestines than larger microplastics, and triggered the production of a pro-inflammatory cytokine. This cytokine then affected the brain through the gut-brain axis, resulting in cognitive and memory impairments. The authors hope that their findings will raise _____ (Answer: awareness) of the potential health risks of nanoplastic pollution, which is a growing environmental concern. They estimate that humans consume about 5 grams of plastic per week, _____ (Answer: equivalent) to a credit card. The study adds to the growing body of evidence that microplastics and nanoplastics can have _____ (Answer: adverse) effects on various biological systems, including the reproductive, immune, endocrine, and nervous systems. Previous studies have shown that aquatic species and laboratory animals in contact with plastic particulates exhibit neurotoxicity and endocrine _____ (Answer: disruption). The authors also note that microplastics have been detected in human tissues, highlighting the need for more research on the impact of plastic pollution on human health.

Choices:

1. compensation, data, awareness, access
2. the equivalence, its equivalence, equivalent, that equivalent
3. neutral, adverse, flawed, declining
4. controversy, disruption, stability, labor

The practice of giving storms personal names appears to have _____ (Answer: originated) with Clement Wragge, an Australian meteorologist who in the 1890s entertained himself by naming storms after women, mythical _____ (Answer: figures), and politicians that he didn't like. The modern system of using personal names developed during

World War II, when meteorologists began using women's names - often those of wives or girlfriends - instead of _____ (Answer: cumbersome) designations based on latitude and longitude. Short and quickly understood, names were easier to _____ (Answer: transmit) over the radio and easier to keep straight if there was more than one storm in a given area. The system was _____ (Answer: formalized) in 1953 when the National Weather Service put together an alphabetical list of female names to be used for storms in the Atlantic basin. Male names were added to the list in 1979 when women's groups pointed out the sexism of using only female names.

Choices:

1. originated, laminated, contaminated, vaccinated
2. figures, figuration, figurative, configure
3. worrisome, cumbersome, awesome, wholesome
4. transmit, transform, transfuse, transect
5. rationalized, decentralized, formalized, immortalized

Scientists have discovered the oldest direct evidence of oxygenic photosynthesis, the process by which cells use sunlight, water and carbon dioxide to produce energy and oxygen. The evidence consists of fossils of microscopic structures called stromatolites, which _____ (Answer: are formed) by layers of cyanobacteria and sediment. The fossils _____ (Answer: date) back to 75 billion years ago, pushing back the origin of oxygenic photosynthesis by 2 billion years. The discovery, published in Nature, sheds new light on the evolution of life on Earth and the Great Oxygenation Event, a crucial period in which oxygen levels in the atmosphere and oceans increased _____ (Answer: dramatically). The researchers analyzed the fossils from the McDermott Formation in Australia using various techniques, including scanning electron microscopy and Raman spectroscopy. They found that the stromatolites contained structures similar to those of modern cyanobacteria, indicating that they were _____ (Answer: capable) of oxygenic photosynthesis.

Choices:

1. has been formed, will form, were forming, are formed
2. trace, return, date, reach
3. dramatically, commonly, smoothly, thoroughly
4. capable, able, likely, suitable

Born in 1463 in Milan, Italy, Caterina Sforza was a remarkable woman whose life defied societal norms of her time. She was not only a skilled military strategist but also a formidable political _____ (Answer: figure) in her own right. Often referred to as the "Tigress of Forlì," Caterina was known for her daring and resilience in defending her family's territories. Her life was marked by turbulent events, including daring sieges, political intrigues, and a fierce _____ (Answer: determination) to protect her family's honor and legacy. Though her name may not be as

widely recognized as some of her _____ (Answer: contemporaries), Caterina Sforza's legacy endures as a symbol of a strong and independent woman who defied the constraints of her era. Caterina's was also a patron of the arts and played a pivotal role in promoting cultural and artistic endeavors in the cities under her control. Her court was a hub of intellectual activity, where artists and scholars found inspiration and support. Caterina Sforza's life stands as a remarkable example of the resilience of those who dared to challenge societal norms and _____ (Answer: carve) out their own paths during the vibrant era of the 15th century Renaissance, even in the face of formidable _____ (Answer: obstacles) and risks.

Choices:

- 1.figure, colleague, human, volume
- 2.prevention, determination, authorship, bulk
- 3.vendors, followers, contemporaries, codes
- 4.carving, carves, had carved, carve
- 5.resources, excuses, substitutes, obstacles

The world needs to dramatically reduce its greenhouse gas emissions, if there's any hope of preventing worse and more frequent extreme weather events. That means _____ (Answer: shifting) to renewable sources of energy - and, importantly, decarbonizing transportation, a sector that is now responsible for about a quarter of the world's carbon dioxide emissions. But the path to that cleaner future is _____ (Answer: daunting) clogged with political and societal roadblocks, as well as scientific _____ (Answer: obstacles). Perhaps that's one reason why the electric vehicle - already on the road, already navigating many of these roadblocks - swerved so dramatically into the climate solutions spotlight in 2021. Just a few years ago, many automakers thought electric _____ (Answer: fad), says Gil Tal, director of the Plug-in Hybrid & Electric Vehicle Research Center at the University of California.

Choices:

1. grafting, drafting, crafting, shifting
2. daunting, daunted, daunt, dauntless
3. spectacles, obstacles, tentacles, receptacles
4. fad, gad, tad, lad

Individuals diagnosed with Attention-Deficit Hyperactivity Disorder (ADHD) and prescribed pharmacological interventions may exhibit thermoregulatory dysfunctions, colloquially _____ (Answer: referred) to as heat sensitivity. This physiological anomaly may impair their ability to perceive elevated body temperatures or dehydration, _____ (Answer: thereby)

escalating the risk of hyperthermia and other heat-induced pathologies. It is noteworthy that this side effect is not exclusive to ADHD medications but is also _____ (Answer: prevalent) among other psychotropic drugs that modulate neurotransmitter activity in the brain. To mitigate the risk of heat-related complications, individuals on these medications are advised to _____ (Answer: adhere) to standard heat-avoidance measures such as seeking shade, maintaining adequate hydration, and applying sunscreen. Furthermore, they are encouraged to _____ (Answer: consult) with their healthcare provider or pharmacist regarding any concerns about their medication's interaction with heat. Abrupt discontinuation of medication without professional guidance is strongly discouraged. Choices:

1. mentioned, termed, referred, known
2. there by, and, but, then
3. prevalent, successful, diverse, abnormal
4. adhere, address, contribute, obey
5. console, consult, complain, discuss

Just as young people used to spend unmonitored time playing with friends in the neighborhood, outside the periphery of adults, they are now _____ (Answer: engaging) with each other in the cyberworld, 'talking' with each other, 'talking' to each other, and 'talking' about each other, often without adult or parental monitoring. While technology allows young people to connect in _____ (Answer: meaningful) ways, such as the opportunity to share ideas, photos, videos, and more, the unsupervised _____ (Answer: nature) of the cyberworld demands the need for guidance, guidelines, and social responsibility. Cyberbullying can happen _____ (Answer: anywhere) there is online social interaction. For example, some young people use social media, video games, texting, or anonymous apps to bully other youth, post embarrassing pictures, share private information, or send threatening messages. Students can use their access to a large online audience to encourage their peers to join them in targeting someone with gossip, rumors, and _____ (Answer: untrue) stories.

Choices:

1. complying, engaging, coping, fighting
2. meaningful, dull, trivial, inconsequential
3. stature, nature, ability, benefit
4. anyway, anyhow, anywhere, anyways
5. interesting, true, authentic, untrue

Astronomers have used data from two NASA telescopes, the Chandra X-ray Observatory and the James Webb Space Telescope, to _____ (Answer: uncover) new details about a bizarre structure in the debris field of an exploded star. The structure, _____ (Answer: dubbed)

the “Green Monster” because of its resemblance to the wall in the left field of Fenway Park, was first identified in Webb’s infrared data from April 2022. The origin of this feature was not clear, until the researchers combined the Webb data with X-rays from Chandra. The team _____ (Answer: concluded) that the Green Monster is part of the blast wave from the supernova explosion, and is plowing into the gas that was ejected by the star before it exploded. The material in the Green Monster is moving _____ (Answer: towards) us, and has a much higher density than the average density of the surrounding gas. This result can help reconstruct the complicated history of mass loss by the star before it exploded. Choices:

1. underline, implement, uncover, convert
2. referred, known, supposed, dubbed
3. compiled, investigated, concluded, measured
4. about, away, against, towards

A total solar eclipse is a rare and spectacular phenomenon that occurs when the moon _____ (Answer: blocks) the sun’s light completely, creating a brief period of darkness in the middle of the day. On 8 April 2024, people in North America will have a chance to _____ (Answer: witness) this amazing event, as the path of totality - the area _____ (Answer: where) the eclipse is visible - will stretch from Mexico to Canada, crossing 13 US states. To enjoy the full experience of the eclipse, viewers need to know where and when to look, as well as how to protect their eyes from the sun’s harmful rays. The eclipse will _____ (Answer: last) for about 3 hours, but the totality will only be for about 4 minutes, depending on the location. During this time, the temperature will drop, the sky will darken, and stars and planets will appear. There will also be other phenomena to observe, such as strange shadows, diamond rings, and the sun’s corona. A total solar eclipse is a once-in-a-lifetime opportunity that should not be _____ (Answer: missed) by anyone who loves astronomy and nature. Choices:

1. blocks, diffuses, transmits, magnifies
2. derive, highlight, witness, drive
3. which, what, there, where
4. pause, last, end, recur
5. missed, anticipated, viewed, celebrated

Comparing the intelligence of animals of different species is difficult, how do you compare a dolphin and a horse? Psychologists have a technique for looking at intelligence that _____ (Answer: does) not require the cooperation of the animal involved. The relative size of an individual’s brain is a reasonable indication of intelligence. Comparing _____ (Answer: across) species is not as simple as generally expected. An elephant will have a larger brain than a human has simply because it is a large beast. _____ (Answer: Instead), we use the Cephalization index, which compares the size of an animal’s brain

with the size of its body. Based on the Cephalization index, the brightest animals on the planet are humans _____ (Answer: followed) by great apes, porpoises and elephants. As a general _____ (Answer: rule), animals that hunt for a living (like canines) are smarter than strict vegetarians (you don't need much intelligence to outsmart a leaf of lettuce). Animals that live in social groups are always smarter and have larger EQ's than solitary animals.

Choices:

1. can, do, did, does
2. across, to, though, with
3. Then, Instead, Because, Otherwise
4. followed, follows, follow, following
5. theory, principal, rule, principle

Young-onset dementia (YOD) is a form of dementia that affects people under the age of 6 It is a devastating condition that has a significant impact on the quality of life of the _____ (Answer: affected) individuals and their families. However, the risk factors and prevention strategies for YOD are not well understood. A recent analysis of data from the UK Biobank, a large biomedical database, identified 15 key _____ (Answer: factors) that could increase the risk of developing YOD. These factors include genetic, environmental, lifestyle, and health-related factors, such as lower education, lower socioeconomic status, alcohol use disorder, depression, diabetes, heart disease, and stroke. Some of these factors are modifiable and/or preventable, meaning that they can be changed or avoided by _____ (Answer: adopting) healthy habits. For example, physical exercise, a Mediterranean-based diet, cognitive stimulation, mood regulation, and social interaction can all help lower the risk of YOD. By addressing these early on, it may be possible to prevent or delay the onset of YOD and improve the _____ (Answer: outcomes) for the affected individuals and their families. Choices:

1. effective, affective, affected, effected
2. locks, standards, factors, roles
3. adopting, dominating, leading, varying
4. outcomes, categories, repercussions, findings

All viruses mutate constantly, and scientists can identify the different _____ (Answer: strains). Coronavirus has mutated into a number of notable strains since the first case was detected in December 2019, with the latest found in Australia believed to originate in Russia. " _____ (Answer: Whilst) this is not considered a variant of concern, little is known about the strain," a letter sent to passengers said. Scientists believe it could be up to 70 per cent more _____ (Answer: transmissible) than others and slightly more deadly. However, more studies will be needed to verify this claim. Last month, Germany's Health Minister said the virus _____ (Answer: variant) first detected in Britain last year now accounts for more than a fifth of all positive tests in the country. The B.1.351 strain was first identified in South Africa, where it has become the dominant type infecting local residents. Cases and deaths in South

Africa have started to fall recently after a second _____ (Answer: surge) of the virus. However, the nation is still battling one of Africa's most severe _____ (Answer: outbreaks), with more than 46,000 people dead. The P.1 strain was first detected in Brazil, and is suspected of _____ (Answer: fuelling) a COVID-19 resurgence in the nation. Brazilian authorities said 260,000 people have already died.

Choices:

1. organisms, elements, strains, shapes
2. Because, However, It, Whilst
3. miserable, countable, transmissible, approachable
4. concord, likeness, variant, origin
5. boon, surge, virtue, cluster
6. outbreaks, restrictions, barriers, recoveries
7. doubling, fuelling, reporting, copying

Automated laboratories are capable of conducting thousands of experiments at a pace far _____ (Answer: exceeding) human capabilities, operating continuously without the need for rest. This unprecedented efficiency has the potential to significantly _____ (Answer: accelerate) the pace of scientific discovery. In various fields of study, self-driving labs have already demonstrated their utility. They have been instrumental in the discovery of new materials, optimization of chemical reactions, and testing of potential drug candidates. The ability to automate these processes not only enhances productivity but also mitigates the _____ (Answer: risk) of human error. However, the proliferation of self-driving labs is not without its challenges. Ensuring the quality and reproducibility of results, _____ (Answer: interpreting) and explaining findings, and striking a balance between human oversight and autonomy are all pressing concerns. As these labs become _____ (Answer: increasingly) prevalent and sophisticated, they necessitate the development of new ethical and legal frameworks.

Choices:

1. exceeds, exceeding, that exceeds, to exceed
2. match, grow, accelerate, mirror
3. appearance, result, risk, process
4. interpreting, discarding, simplifying, dispensing
5. increasingly, neatly, marginally, reluctantly

REORDER PARAGRAPHS

- 1) Although experts like journalists are expected to be unbiased, they invariably share the system biases of the disciplines and cultures in which they work.
- 2) Journalists try to be fair and objective by presenting all sides of a particular issue.
- 3) Practically speaking, however, it is about as difficult to present all sides of an issue as it is to invite candidates from all political parties to a presidential debate.
- 4) Some perspectives ultimately are not included.

Answer: 2,3,4,1

- 1) When a candle burns, the flame heats the nearby air and starts to rise.
- 2) As this warm air moves upward, cooler air and oxygen rush in at the bottom of the flame to replace it.
- 3) When that cooler air is heated, it too rises up and is replaced by cooler air at the base of the flame.
- 4) This creates a continual cycle of upward moving air around the flame (a convection current), which gives the flame its elongated or teardrop shape.

Answer: 2,4,1,3

- 1) Technology has significantly impacted how languages are used and learned.
- 2) One example is that online platforms have made language learning more accessible to a wider audience.
- 3) Another example is that social media has also introduced new linguistic phenomena, such as internet slang and emojis.
- 4) However, this digital evolution sometimes leads to the erosion of language norms and traditional forms of communication.

Answer: 2,4,1,3

- 1) Climate change poses a significant challenge to crop cultivation.
- 2) For example, rising temperatures, changing precipitation patterns, and increased frequency of extreme weather events can adversely affect crop yields.
- 3) Consequently, there is a growing focus on developing climate-resilient crop varieties.
- 4) However, this measure requires time and resources, which are not always readily available.

Answer: 2,3,1,4

- 1) Consequently, conservation efforts must consider the importance of communication spaces for elephants.
- 2) Although these communication methods are well-adapted for long-range interaction, human activities like deforestation are disrupting their habitats.
- 3) African elephants are known for their advanced communication skills.
- 4) Intriguingly, they also communicate through seismic signals, detecting vibrations through their feet.
- 5) They use a range of vocalizations and body movements to communicate.

Answer: 3,5,4,2,1

- 1) The age of a tree can be determined by counting its growth rings.
- 2) Each ring represents one year of growth, typically forming during specific seasons.
- 3) Consequently, the number and size of these rings can indicate not only the age but also the environmental conditions during each year of the tree's life.
- 4) However, this method is not always accurate for tropical trees, which may not have clear growth rings.

Answer: 1,2,4,3

- 1) Electric vehicles are pivotal in reducing transportation-related emissions.
- 2) They operate on electric power, which can eliminate the need for gasoline.
- 3) Despite their environmental benefits, electric vehicles face challenges in battery life and charging infrastructure.
- 4) Consequently, significant investment in charging networks and battery technology is essential for their wider adoption.

Answer: 2,3,4,1

- 1) The human brain is an incredibly complex organ, consisting of over 100 billion neurons.
- 2) These neurons communicate through intricate networks, forming the basis of our thoughts, emotions, and behaviors.
- 3) The brain controls not only mental processes but also regulates vital functions like heartbeat and breathing.
- 4) Therefore, understanding the brain is a major focus of modern science, as it holds the key to unlocking mysteries of neurological and psychological conditions.

Answer: 3,1,2,4

- 1) Harriet Tubman, born into slavery in Maryland, became a leading figure in the Underground Railroad.
- 2) After escaping slavery, she risked her life to help others gain their freedom.
- 3) By doing this, her bravery and strategic skills led to the liberation of hundreds of slaves.
- 4) As a result, Harriet Tubman's legacy extends far beyond her lifetime, symbolizing courage and the relentless pursuit of freedom.

Answer: 4,1,2,3

- 1) The Terracotta Army, discovered in China, was buried with the first Emperor of China, Qin Shi Huang.
- 2) This vast collection of terracotta sculptures depicts the armies of Qin Shi Huang.
- 3) However, the techniques used to create such a large number of detailed sculptures so quickly are still not fully understood.
- 4) The Terracotta Army still remains a remarkable example of ancient Chinese art and funerary practices.

Answer: 1,4,2,3

- 1) Stephen Hawking was a renowned physicist born in 1942 in England.
- 2) Despite being diagnosed with a motor neuron disease at a young age, he made groundbreaking contributions to cosmology.
- 3) Hawking's best-selling book, 'A Brief History of Time,' made complex scientific concepts accessible to the public.
- 4) His resilience and brilliance have left a lasting impact on both science and popular culture.

Answer: 4,3,1,2

- 1) The Great Barrier Reef, located off the coast of Australia, is the world's largest coral reef system.
- 2) The reef is known for its diverse marine life, including various species of fish, corals, and molluscs.
- 3) However, it faces significant threats from climate change, pollution, and overfishing.
- 4) Thus, conservation efforts are crucial to preserve this unique and vital ecosystem for future generations.

Answer: 1,3,4,2

- 1) Nikola Tesla, born in present-day Croatia, was an inventor and engineer known for his work with electricity.
- 2) His development of alternating current (AC) electrical systems formed the basis of modern electrical power distribution.
- 3) Despite his numerous inventions, Tesla faced financial difficulties and recognition eluded him for many years.
- 4) Today, he is celebrated as a pioneer of electrical engineering and his contributions have far-reaching impacts on modern technology.

Answer: 4,3,2,1

- 1) Oceans host a vast array of species, from microscopic plankton to large whales.
- 2) These species play diverse roles in marine food webs and biogeochemical cycles.
- 3) However, marine ecosystems are facing threats like pollution and climate change.
- 4) As a result, conserving marine biodiversity is essential for ecological health and human well-being.
- 5) Marine biology focuses on life in ocean ecosystems, which are crucial for global biodiversity.

Answer: 5,1,2,3,4

- 1) Polar bears have evolved to thrive in the Arctic's harsh climate.
- 2) Their thick fur and layer of fat provide insulation against extreme cold.
- 3) Additionally, their large paws are adapted for swimming in icy waters.
- 4) Despite these adaptations, global warming is reducing sea ice, their primary habitat.
- 5) As a result, polar bears are facing challenges in hunting and survival, highlighting the impact of climate change on Arctic species.

Answer: 4,1,5,2,3

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Answer: 4,1,5,2,3

- 1) In today's fast-paced world, the demands of work often seem never-ending.
- 2) As a result, many people experience high levels of stress and burnout in their careers.
- 3) It's crucial for individuals to find ways to manage their work-related stress effectively.
- 4) This can lead to a negative impact on mental and physical health, as well as overall job satisfaction.

Answer: 1,2,3,4

- 1) Coral reefs support more marine life than any other ocean ecosystem and are, not surprisingly, a favorite pursuit for many divers.
- 2) But as well as being physically and biologically spectacular, coral reefs also sustain the livelihoods of over half a billion people.
- 3) What is more, this number is expected to double in coming decades while the area of high-quality reef is expected to halve.
- 4) In combination with the very real threat of climate change, which could lead to increased seawater temperatures and ocean acidification, we start to arrive at some quite frightening scenarios.

Answer: 3,1,2,4

- 1) World Mental Health Day, started by the World Federation for Mental Health, first took place on 10 October 1992.
- 2) It has been celebrated on this date ever since.
- 3) For a brief definition from the World Health Organization, World Mental Health Day aims to raise awareness of mental health issues around the world and to mobilize efforts in support of mental health.
- 4) This year's theme is 'Make mental health and well-being for all a global priority'.

Answer: 2,1,3,4,5

- 1) These forests cover only 6% of the Earth's surface but contain more than half of the world's plant and animal species.

- 2) However, deforestation is posing a severe threat to these biodiverse environments, leading to the loss of species and contributing to global climate change.
- 3) Rainforests are Earth's oldest living ecosystems, with some surviving in their present form for at least 70 million years.
- 4) The dense canopy of the rainforest blocks sunlight, creating a humid understory teeming with life.

Answer: 3,1,4,2

- 1) Mandarin is the most common language in the world as it is the official language of Mainland China, Taiwan, and one of the official languages of Singapore.
- 2) Thus, Mandarin is commonly referred to as 'Chinese'.
- 3) But in fact, it is just one of many Chinese languages.
- 4) Depending on the region, Chinese people also speak Wu, Hunanese, Jiangxinese, Hakka, Min, and many other languages.
- 5) Even in one province, there can be multiple languages spoken. For example, in Fujian province, you can hear Min, Fuzhounese, and Mandarin being spoken, each being very distinct from the other.

Answer: 5,2,1,4,3

- 1) In 1624, King Louis XIII ordered the construction of a simple, two-story hunting lodge in dense woodlands about 12 miles outside of Paris.
- 2) By 1634, the simple lodge had been replaced by a more regal stone and brick chateau.
- 3) Louis XIII died in 1643, leaving the monarchy in the hands of the four-year-old Louis XIV.
- 4) When he came of age, Louis began work on the family hunting lodge, ordered the addition of kitchens, stables, gardens, and residential apartments.
- 5) By 1677, Louis XIV had begun to lay the foundation for a more permanent move.

Answer: 3,5,4,2,1

- 1) Therefore, maintaining a balanced and well-regulated credit system is crucial for economic health.
- 2) The credit system allows individuals and businesses to borrow money, facilitating purchases and investments.
- 3) In this system, creditworthiness, determined by past financial behavior and current financial status, influences the ability to borrow and the terms of loans.
- 4) While credit can stimulate economic growth, excessive borrowing can lead to financial crises.

Answer: 2,3,4,1

- 1) The Covid-19 pandemic necessitated a global shift to online learning.
- 2) While researchers have examined the impact of remote learning on elementary students' academic performance, less is known about elementary teachers' perceptions of teaching online during the pandemic.
- 3) One inquiry used interviews to better understand how elementary teachers experienced remote instruction.
- 4) The results suggest that teachers need more guidance from administration and resources to manage stress.

Answer: 1,3,4,2

- 1) For example, they can adjust interest rates to influence economic activity.
- 2) Central banks play a crucial role in a country's economy, managing the monetary policy and overseeing the banking system.
- 3) Their primary goal is to maintain financial stability and control inflation.
- 4) Additionally, central banks act as lenders of last resort during financial crises.

Answer: 2,3,1,4

- 1) All living things are made of carbon. In the atmosphere, carbon bonds with oxygen to form carbon dioxide, which plants use to grow.
- 2) Once plants and animals die, the carbon they contain can turn into fossil fuels, like coal and oil.
- 3) When humans burn fossil fuels, the carbon combines with oxygen to form CO₂ and is released into the atmosphere, where it traps in heat to keep the earth warm.
- 4) Humans have burned so much fossil fuel, and the earth is getting hotter and hotter, which is called global warming.

Answer: 2,4,1,3

- 1) Scientists have known for over a decade that the West Antarctic Ice Sheet has been losing mass and contributing to sea level rise.
- 2) Its eastern neighbor is, however, ten times larger and has the potential to raise the global sea level by some 50 meters.
- 3) Despite its huge size and importance, conflicting results have been published on the recent behavior of the East Antarctic Ice Sheet.

- 4) A study led by a group of NASA scientists, that was published in 2015, suggested that this part of Antarctica was gaining so much mass that it compensated for the losses in the west.

Answer: 1,4,2,3

- 1) Sparked by social and economic inequality, it led to the overthrow of the monarchy and the rise of democracy.
- 2) The French Revolution, beginning in 1789, dramatically transformed France and influenced global politics.
- 3) Consequently, this event inspired numerous other revolutions and political changes worldwide.
- 4) Hence, the French Revolution is seen as a significant event that spread the ideals of liberty, equality, and fraternity.

Answer: 2,1,3,4

- 1) Hop a plane across several time zones, and you may end up with what scientists call circadian dysrhythmia, also known as jet lag.
- 2) It's a temporary sleep disorder where your body's internal clock isn't in sync with the time cues in your destination.
- 3) It's also why you might doze off at lunch on your first day in London or be unable to get to sleep the first couple of nights of a vacation to Japan.
- 4) But jet lag doesn't have to wreck your trip.
- 5) You can use strategically timed naps and caffeine to ease into your new time zone.

Answer: 1,2,5,4,3

- 1) For years, there's been a ton of hype about AI's potential to transform drug discovery.
- 2) In 2020, a British startup called Exscientia said its new pill for OCD would be the first AI-designed drug to be tested on humans.
- 3) In 2021, Exscientia followed that up with another drug for patients with tumors.
- 4) Based on the track record of the past two years, I predict that such discoveries will happen in 2022, yielding drugs that are promising enough to merit a clinical trial.

Answer: 4,1,3,2

- 1) Thus, the Declaration of Independence remains a powerful testament to the ideals of democracy and self-governance.
- 2) Drafted by Thomas Jefferson, it declared the thirteen American colonies free from British rule.

- 3) Consequently, this document not only symbolized the pursuit of liberty but also ignited revolutionary fervor globally.
- 4) In 1776, the American Declaration of independence was adopted, marking the United States' birth as a sovereign nation.

Answer: 4,2,3,1

- 1) Don't expect a straightforward answer from Chanan Tigay about the authenticity or even the existence of what was promoted as the earliest version of the fifth and final book of the Jewish Torah, known to Christians as the Book of Deuteronomy in the Old Testament.
- 2) As an author who spent years trying to unravel a juicy mystery and get it down on paper, Tigay wants you to read his book, "The Lost Book of Moses: The Hunt for the World's Oldest Bible," to find the answer.
- 3) But at a talk on Wednesday, the writer, journalist, and fellow offered listeners an enticing peek, describing how he landed on the story of the mysterious manuscript and about his years trying to track down the document.
- 4) From the author's description, it was a wild, Indiana Jones-type ride that included a competition to find the relic, false starts, dead ends, trips to faraway places, and an ultimate breakthrough close to home.

Answer: 2,4,3,1

- 1) Numbers of staff who wish to turn up and do a simple job and go home is relatively happy if they believe their work is secure.
- 2) However, any employee who wants to acquire more varied and responsible duties will not feel satisfied for long staying with the same and boring job.
- 3) People want to keep working hard only if there are opportunities for promotion to a more challenging job.
- 4) If this opportunity does not exist, they are most likely to be demotivated.

Answer: 2,1,4,3

- 1) Throughout the war, there were periods of relative peace, followed by intense conflict.
- 2) It began over disputed claims to the French throne and control of territories in France.
- 3) Ultimately, the war ended with a French victory, solidifying France's national identity and changing the landscape of European politics.
- 4) The Hundred Years' War, a series of conflicts between England and France, lasted from 1337 to 1453.

Answer: 4,2,1,3

- 1) Back in 2008 a small company in San Francisco called Airbnb had a dream.

- 2) People with spare bedrooms would welcome strangers into their homes and share restaurant recommendations with them for a small fee.
- 3) Fast forward to 2016 and the big, successful Airbnb is considered a mainstay of what we now call "the sharing economy".
- 4) It is also the business that defines the mentality of the millennial.

Answer: 3,1,2,4

- 1) Therefore, the tea ceremony continues to be practiced and revered, reflecting the deep cultural heritage of Japan.
- 2) The Japanese tea ceremony, embodying principles of harmony, respect, purity, and tranquility, originated in the 9th century as a highly ritualized form of art.
- 3) It is also a spiritual experience that emphasizes mindfulness and aesthetics.
- 4) This ceremony is not just about drinking tea.

Answer: 2,4,3,1

- 1) A requirement of Humanities 104 is to write a persuasive paper on a topic of your choice.
- 2) The topic you choose should be supported by a range of sources.
- 3) The source should be cited under APA guidelines, and the final draft should be written in APA styles.
- 4) The final draft is due one week before the final exam.

Answer: 2,3,4,1

- 1) Because the barons pressured him, he agreed to a series of legal reforms limiting his power.
- 2) In 1215, King John of England signed the Magna Carta, a document that significantly influenced the course of history.
- 3) Consequently, this event laid the foundation for modern democracy and the rule of law.
- 4) Thus, the Magna Carta is often cited as a symbol of freedom against arbitrary rule, influencing legal systems around the world.

Answer: 2,1,3,4

- 1) An earthquake comes like a thief in the night, without warning.
- 2) It was necessary, therefore, to invent instruments that neither slumbered nor slept.
- 3) Some devices were quite simple.
- 4) One, for instance, consisted of rods of various lengths and thicknesses which would stand up on end like ninepins.
- 5) When a shock came it shook the rigid table upon which these stood.

Answer: 5,1,2,4,3

READING FILL IN THE BLANKS

The Daw Jones Industrial Average (DJIA) reports the average stock price of large, publicly traded US companies. It tends to _____ (Answer: reflect) the state of the stock market as a whole. Though its name would _____ (Answer: lead) you to believe the DJIA is made up of only _____ (Answer: industrial) companies, the DJIA in fact contains stocks across many "industries," not all of which are industrial. The businesses _____ (Answer: represented) include finance, food, technology, retail, heavy equipment, oil, chemical, pharmaceutical, consumer goods, and entertainment.

Choices: industrial, lead, distort, reflect, average, expressed, represented

Very intelligent people often make the _____ (Answer: mistake) of assuming that other people's minds work in the same way as theirs do. Economists, for example, create mathematically-based models on the _____ (Answer: notion) that people act rationally as far as their own economic _____ (Answer: interests) are concerned. You don't have to look much further than family and friends to see how off the _____ (Answer: mark) this idea is. The problem with a lot of such scientifically-based theories is that they are not friendly to facts that don't _____ (Answer: fit) the case.

Choices: business, fit, fact, interests, mark, make, mistake, notion

Perhaps it should come as no surprise then that food has been a medium for the nation's defining struggles, whether at the Boston Tea Party or the sit-ins at southern lunch counters. It is integral to our concepts of health and even morality whether one refrains from alcohol for religious reasons or evades meat for political _____ (Answer: ideals). But strong opinions have not brought _____ (Answer: certainty). Americans are ambivalent about what they put in their mouths. We have become _____ (Answer: suspicious) of our foods, especially as we learn more about what they contain. The _____ (Answer: ritual) of food is still prosperous in the American consciousness. It's no coincidence, then, that the first Thanksgiving holds the American imagination in such bondage. It's what we eat — and how we _____ (Answer: share) it with friends, family, and strangers — that help define America as a community today.

Choices: ritual, guilty, certainly, share, constant, vanish, ideals, suspicious

Modern developments in areas such as neuroscience, artificial intelligence and evolutionary psychology have resulted in new _____ (Answer: ways) of thinking about human nature. Can we explain the mind and consciousness in _____ (Answer: terms) of brain function? Can we understand modern human behavior as our evolutionary heritage? Is science even the right _____ (Answer: place) to start if we want to understand human nature? Come along to the Great Debate, hear the arguments and have your _____ (Answer: say).

Choices: place, beliefs, extent, ways, terms, say, end

Let us then suppose the mind to be, as we say, white paper, _____ (Answer: void) of all characters, without any ideas: - How comes it to be furnished? Whence comes it by that vast store which the busy and _____ (Answer: boundless) fancy of man has painted on it with an almost endless variety? Whence has it all the materials of reason and knowledge? To this I answer, in one word, from experience. In that, all our knowledge is _____ (Answer: founded); and from that it ultimately _____ (Answer: derives) itself.

Choices: fancies, boundless, void, founded, derives, sight, useless, sponsored

Australia is a dynamic multi-cultural society, viewed by many as the world's most desirable place to live. Here Frank Welsh traces Australia's intriguing and varied history to _____ (Answer: examine) how this society _____ (Answer: emerged), from its ancient Aborigine tribes and earliest British convict _____ (Answer: settlements) to today's modern nation - one that _____ (Answer: retains) strong links with its colonial past but is _____ (Answer: increasingly) independent and diverse.

Choices: increasingly, revive, transpired, emerged, examine, retains, settlements, forceful, continues, sparsely, remains

Icing and anti-inflammatories will help _____ (Answer: with) the pain and swelling. Vigorous massage _____ (Answer: of) the knot in the muscle will help it to relax and ease the pain. Meanwhile, work _____ (Answer: on) strengthening and stretching your hip, hamstring and lower-back muscles. _____ (Answer: For) stretching, focus on the hamstring stretch, the hip & lower-back stretch, and the hamstring & backstretch. For strengthening, try side leg lifts.

Choices: on, of, to, onto, for, by, with, in

Hippocrates allowed observation, rationality and his own genuine respect for his patients to _____ (Answer: guide) his practice. Using the scientific method, he carefully recorded his patient's symptoms and _____ (Answer: responses) to treatments and used the data _____ (Answer: gathered) to evaluate and prescribe the most successful regimens. His prestige as a great _____ (Answer: medical) practitioner, educator, and author helped spread these ideals of _____ (Answer: rational) medicine throughout the ancient world.

Choices: medical, patient, expressions, plotted, gathered, credit, emotional, predicted, rational, responses, guide

Folklore, a modern term for the _____ (Answer: body) of traditional customs, superstitions, stories, dances, and songs that have been adopted and maintained within a given _____ (Answer: community) by processes of repetition is not reliant on the written _____ (Answer: word). Along with folk songs and folktales, this broad _____ (Answer: category) of cultural forms embraces all kinds of legends, riddles, jokes, proverbs, games, charms, omens, spells, and rituals, especially those of pre-literate societies or social classes. Those forms of verbal expression that are handed on from one generation or locality to the next by word of mouth are said to constitute an oral _____ (Answer: tradition).

Choices: book, regime, body, tradition, community, art, category, word

In an attempt to _____ (Answer: lure) new students, leading business schools - including Harvard, Stanford, the University of Chicago and Wharton - have moved away from the unofficial admissions _____ (Answer: prerequisite) of four years' work experience and _____ (Answer: instead) have set their sights on recent college graduates and so-called early career _____ (Answer: professionals) with only a couple years of work under their belt.

Choices: professionals, conclusion, instead, lure, juveniles, thus, prerequisite, check

Egg-eating snakes are a small group of snakes whose _____ (Answer: diet) consists only of eggs. Some eat only small eggs, which they have to swallow _____ (Answer: whole), as the snake has no teeth. Instead, some other snakes eat bigger eggs, but it requires special _____ (Answer: treatment). These snakes have spines that stick _____ (Answer: out) from the backbone. The spines crack the egg _____ (Answer: open) as it passes through the throat.

Choices: saliva, part, open, taste, diet, whole, treatment, out

Low fertility is a concern for many OECD countries as they face the prospect of population aging. This article makes _____ (Answer: comparisons) between Australia and seven other OECD countries in fertility rates between 1970 and 2004. Changing age _____ (Answer: patterns) of fertility are also compared and show that for most of the countries, women are _____ (Answer: postponing) childbirth and having fewer babies. The _____ (Answer: associations) of women's education levels and rates of employment with fertility are also _____ (Answer: explored).

Choices: sense, patterns, notions, postponing, associations, comparisons, gaps, accelerating, explored, comparable

A chemical that is sometimes _____ (Answer: emitted) from human skin, breath and faeces has no _____ (Answer: detectable) smell, but it appears to influence people's behavior, with men becoming calmer and women becoming more _____ (Answer: attracted).

aggressive). Although scientists have yet to _____ (Answer: determine) when or under what conditions people and other mammals release hexadecenal, it seems clear that humans are 'communicating' with each other _____ (Answer: subconsciously) through their body odor.

Choices: aggressive, committed, subconsciously, determine, progressive, detectable, consciously, undermine, emitted

Greenland was first _____ (Answer: colonized) by Vikings in 985 by a group of settlers in 14 ships led by Erik the Red, who had been _____ (Answer: banished) from neighboring Iceland for manslaughter. Erik and his followers settled across southern Greenland, where they and their _____ (Answer: descendants) hunted for seals, grazed livestock, built churches and traded walrus ivory with European mainlanders.

Choices: ancestors, defeated, colonized, descendants, banished, dispelled

Over the past two decades around a third of the world's mangrove swamps have been _____ (Answer: converted) for human use, with many turned into valuable shrimp farms. In 2007 an economic study of such shrimp farms in Thailand showed that the commercial profits per hectare were \$9,632. If that were the only factor, conversion would seem an excellent idea. However, proper _____ (Answer: accounting) shows that for each hectare government subsidies formed \$8,412 of this figure and there were costs, too: \$1,000 for pollution and \$12,392 for losses to ecosystem services. These _____ (Answer: comprised) damage to the supply of foods and medicines that people had taken from the forest, the loss of habitats for fish, and less buffering against storms. And because a given shrimp farm only stays _____ (Answer: productive) for three or four years, there was the additional cost of restoring them afterwards.

Choices: regenerating, study, estimated, accounting, productivity, productive, converted, comprised

Let us then suppose the mind to be, as we say, white paper, _____ (Answer: void) of all characters, without any ideas: - How comes it to be furnished? Whence comes it by that vast store which the busy and _____ (Answer: boundless) fancy of man has painted on it with an almost endless variety? Whence has it all the materials of reason and knowledge? To this I answer, in one word, from experience. In that, all our knowledge is _____ (Answer: founded); and from that it ultimately _____ (Answer: derives) itself.

Choices: fancies, boundless, void, useless, sight, founded, derives, sponsored

Over 800 Shakespeare scholars from almost fifty countries will gather at King's College London next week as the university co-hosts the 10th World Shakespeare Congress to explore and honor the Bard's life and work. Organised by the International Shakespeare Association (ISA) the World Congress _____ (Answer: is) held every five years and 2016 is the first time it will be co-hosted _____ (Answer: in) two locations that were integral to both the personal and working life of William Shakespeare. Delegates will arrive in London on Thursday following the

start of the Congress on Sunday in Stratford-upon-Avon. _____ (Answer: With) a main theme of 'Creating and Recreating Shakespeare', the Congress will look _____ (Answer: at) the continuing global relevance of Shakespeare's work through a varied program of plenaries, panels, seminars and workshops.

Choices: with, without, at, upon, is, was, in, to

Fans of biographical criticism have a _____ (Answer: luxurious) source in the works of Hans Christian Andersen. Like Lewis Carroll (and, to a lesser extent, Kenneth Grahame), Andersen was near-pathologically uncomfortable in the _____ (Answer: company) of adults. Of course, all three had to work and interact with adults, but all three really _____ (Answer: related) well to children and their simpler worlds. Andersen, for a time, ran a puppet theatre and was incredibly _____ (Answer: popular) with children, and, of course, he wrote an impressive _____ (Answer: body) of fairy tales which have been produced in thousands of editions since the 19th century.

Choices: body, company, convergent, comparison, related, popular, luxurious, disintegrated, spiracle, barren

A fascination with the fate of those who show great early talent remained with me. Then in 1981, I happened upon a radio documentary _____ (Answer: commemorating) Hephzibah, who died earlier that year. Produced and narrated for the Australian Broadcasting Commission's The Coming Out Show by the influential feminist commentator and academic Eva Cox – who was, I learnt for the first time, Hephzibah's stepdaughter – it _____ (Answer: featured) interviews with Hephzibah and with those who had _____ (Answer: known) her. I heard her light, precise voice with its slightly Germanic vowels and hint of an American _____ (Answer: drawl) as she spoke about things that were important to her, and I was drawn to her warmth, thoughtfulness and humour.

Choices: prescribing, known, mourned, drawl, commemorating, displaced, abase, featured

The allure of the book has always been negative and _____ (Answer: positive), for the texts and pictures between the covers have helped many young readers to _____ (Answer: discover) and grasp the world around them in a pleasurable and meaningful way. But the allure has also enabled authors and publishers to _____ (Answer: prey) upon young readers' dispositions and desires and to _____ (Answer: sell) them a menu that turns out to be junk food.

Choices: prey, beneficial, sell, invent, positive, show, present, read, find, pray, discover

Empathy is important because it _____ (Answer: governs) the way in which people interact socially, and it impacts the way their personal relationships develop. Cognitive empathy is when a person is _____ (Answer: intellectually) able to understand what someone else might be feeling, and they are even able to use that knowledge to _____ (Answer: predict) how the person will act or feel, which could also help scientists develop better support for people who may _____ (Answer: struggle) to read facial expressions.

Choices: intellectually, intangibly, demonstrate, struggle, imposes, governs, predict

After centuries of inequality in UK higher education benefiting men, there has been a _____ (Answer: reversal) over the past three decades. A lower proportion of entrants to UK higher education institutions are male than ever before and they _____ (Answer: make) up less than one-half of the total. Other developed countries have _____ (Answer: undergone) a similar shift. Male _____ (Answer: underachievement) is not seen only in the figures for entry but also in non-continuation (drop-out) rates and degree performance statistics.

Choices: underachievement, phased, reversal, make, undergone, coincidence, deceit, recovery, hitch

Damage from unsafe listening can _____ (Answer: aggravate) over the life course. A study discovered that young people regularly listen to music at unsafe noise levels and concluded that _____ (Answer: promoting) safer listening practices was urgent. Sensory cells and structures in the ear can become _____ (Answer: fatigued) from being exposed to sound at excessive volumes. If left unchecked for too long, it can cause _____ (Answer: permanent) damage, such as deafness.

Choices: accounting, aggravate, permanent, promoting, dependent, fatigued, preside

Of the more than 1,000 bat species worldwide, 22 are _____ (Answer: native) to North America. And while there are no pollinator bats in our area, gardeners should _____ (Answer: champion) those that do live here, because they're insectivorous. These bats _____ (Answer: consume) moths, beetles and mosquitoes, and can eat up to 500 mosquito-sized insects per hour. They also protect gardens and crops from such _____ (Answer: pests) as cucumber beetles, cutworms and leafhoppers.

Choices: consume, champion, preys, objective, besiege, pests, native

However, electric vehicle (EV) ownership in the US has thus far been _____ (Answer: dominated) by households with higher incomes and education levels, leaving the most vulnerable populations behind. We identified these _____ (Answer: disparities) that will require targeted policies to promote energy justice in lower-income communities, including the _____ (Answer: subsidizing) of charging infrastructure, as well as strategies to reduce electricity costs and increase the _____ (Answer: availability) of low-carbon transportation modes such as public transit and bicycling.

Choices: factors, availability, issued, subsidizing, aggrandizing, dominated, disparities

Dementia is an _____ (Answer: umbrella) term for several diseases affecting memory, other cognitive abilities and behavior that _____ (Answer: interfere) significantly with

a person's ability to maintain their activities of daily living. There is often a lack of awareness and understanding of dementia, resulting in stigmatization and barriers to _____ (Answer: diagnosis) and care. The impact of dementia on carers, family and society at _____ (Answer: large) can be physical, psychological, social and economic.

Choices: fag, interfere, diagnosis, bottom, large, unexpired, umbrella

Most archaeologists _____ (Answer: focus) on a particular region of the world or a specific topic of study. Specialization allows an archaeologist to develop _____ (Answer: expertise) on a particular issue. Some archaeologists _____ (Answer: specialize) in technologies that find, map, or analyze archaeological sites. Underwater archaeologists study the remains of human activity that _____ (Answer: lie) beneath the surface of water or on coasts.

Choices: evidence, order, expertise, lie, focus, specialize, entrust

If you are interested in studying but have other _____ (Answer: commitments), our online and distance learning courses offer an alternative flexible _____ (Answer: mode) of study. Teaching is conducted through a mixture of audio-visual, written and interactive materials. There are also _____ (Answer: opportunities) for online discussion and collaborative projects with tutors and other students. Some programmes include residential _____ (Answer: modules) taught on campus, giving you the _____ (Answer: chance) to meet and work alongside your tutors and fellow students face-to-face. Our Graduate School provides comprehensive support for distance and part-time researchers, many of whom study for up to six years or more.

Choices: opportunities, rate, charges, mode, modules, commitments, requirements, chance

Hidden below the waters of the Gulf of Mexico, the Chicxulub crater marks the impact site of an asteroid that _____ (Answer: struck) Earth 66 million years ago. The most _____ (Answer: consequential) outcome of this cataclysmic event was the fifth mass extinction, which _____ (Answer: wiped) out about 80% of all animal species, including the non-avian dinosaurs.

Choices: clinical, wiped, deflected, struck, cast, consequential

Taking a daily multivitamin and mineral tablet may slow the _____ (Answer: gradual) cognitive decline that happens naturally as we get older. The benefits of taking multivitamin pills have been _____ (Answer: debated) among doctors. They were once widely _____ (Answer: recommended) as an "insurance policy" for people with poor diets, based on studies that found those who take them _____ (Answer: tend) to have better health. But these studies weren't randomised, placebo-controlled trials and when such trials were done, they found no benefit from taking supplements for most healthy people.

Choices: tend, determine, debated, annual, appeared, gradual, recommended

In *The Origin of Species*, Darwin provided abundant evidence that life on Earth has evolved over time, and he proposed natural selection as the primary mechanism for that change. He observed that individuals _____ (Answer: differ) in their inherited traits and that selection acts on such differences, leading to _____ (Answer: evolutionary) change. Although Darwin realized that variation in heritable traits is a prerequisite for _____ (Answer: evolution), he did not know precisely how organisms pass heritable traits to their offspring. Just a few years after Darwin published *The Origin of Species*, Gregor Mendel wrote a groundbreaking paper on inheritance in pea plants. In that paper, Mendel proposed a model of inheritance in which organisms transmit discrete heritable units (now called genes) to their offspring. Although Darwin did not know about genes, Mendel's paper set the stage _____ (Answer: for) understanding the genetic differences on which evolution is based.

Choices: form, growth, rough, differ, evolutionary, for, by, evolution

Some people believe that Nostradamus's prophecies have predicted actual events. Others _____ (Answer: maintain) that because his prophecies tend to be about general types of events that occur frequently _____ (Answer: throughout) history — and are written in a cryptic and vague manner — it's possible to find one that seems to _____ (Answer: match) almost any event that has occurred.

Choices: maintain, inside, match, afford, throughout, satisfy

Orcas are known for being _____ (Answer: picky) eaters. They'll normally hunt fish, dolphins, seals, sea lions, whales, and even sharks. Whatever they grab, they normally _____ (Answer: tear) apart their food, devouring the most nutrient-dense parts. That's why scientists in Russia were _____ (Answer: perplexed) when they dissected a beached orca in 2020 and found not one, not two, but seven fully _____ (Answer: intact) sea otters in her gastrointestinal tract. She had probably (Answer: swallowed) them whole.

Choices: tear, delicious, deserved, attack, intact, picky, observed, perplexed, swallowed

The Polynesians explored and _____ (Answer: settled) islands of the South Pacific by traveling in 18-meter-long, double-hull canoes and living on the _____ (Answer: open) ocean for days or weeks as they moved between islands. They used observations of the stars to help them navigate across the ocean and developed a _____ (Answer: keen) sense of the ocean currents and how winds and islands (Answer: influenced) them.

Choices: present, built, open, convenient, influenced, confirmed, keen, settled

When it _____ (Answer: comes) to the magical world of language learning in toddlers, you'd be surprised at the tricks up their tiny _____ (Answer: sleeves). It _____ (Answer: turns) out, 18-month-olds have a knack for latching onto words

with a bit of repetition. Researchers have been peering into the minds of these linguistic geniuses and found that names with repeated _____ (Answer: syllables), like "choo-choo" or "ma-ma", are easier for these pint-sized scholars to _____ (Answer: pick) up.

Choices: turns, pick, comes, get, passes, seems, syllables, parcels, sleeves, strokes

If your mind is _____ (Answer: racing) with catastrophic thoughts about what's going to happen, your body responds in kind: the sympathetic nervous system _____ (Answer: kicks) in, bracing you for a threat – your breathing becomes fast and shallow, and adrenaline races to your muscles, which can cause you to tremble and feel _____ (Answer: faint).

Choices: guilty, breaks, racing, kicks, reflecting, faint

ASD is a lifelong condition with a median age of _____ (Answer: diagnosis) greater than 4 years although most current intervention strategies _____ (Answer: target) children less than 6 years to promote early behavioral change. Individuals with ASD and their families _____ (Answer: face) significant challenges during developmental transitions. School-age children in particular, often remain unengaged in social _____ (Answer: settings), reducing opportunities for socio-communicative development.

Choices: face, target, comparison, settings, defend, complain, diagnosis, components

Universal basic income (UBI) has become more popular as a way to _____ (Answer: tackle) economic inequality. UBI entails _____ (Answer: giving) every citizen a regular, unconditional payment to provide a financial safety net and _____ (Answer: boost) the economy. While some see it as a way to address poverty and job displacement, others worry about its cost and potential disincentives to work, _____ (Answer: sparking) a contentious debate in economics and politics.

Choices: suppose, reflect, drawing, giving, boost, sparking, struggling, tackle

Although they may be nutritious in their own _____ (Answer: right), most herbs are too strong tasting to be eaten in large _____ (Answer: quantities). However, these plants provide a very useful service by _____ (Answer: enhancing) the flavor of other foods. Many people are great fans of the use of herbs, and they may grow a diversity of these plants in their own herb gardens, to _____ (Answer: ensure) a fresh supply of these flavorful and aromatic plants.

Choices: ensure, enough, right, giving, quantities, enhancing

Banksy, the enigmatic street artist, combined sharp political commentary with dark humor, quickly gaining public _____ (Answer: attention). Despite his growing fame, he maintained anonymity, challenging the commercial art scene with his guerrilla tactics. His art, which frequently mocked societal _____ (Answer: norms), rose in popularity, but he still questioned art's commodification by performing satirical stunts, such as _____ (Answer: tearing) up a painting at auction, thus _____ (Answer: reshaping) public discourse on the intersection of art, fame, and value.

Choices: norms, reshaping, figure, tearing, implying, grades, attention, pursuing

Because autism is a spectrum disorder, each child _____ (Answer: diagnosed) with an autistic disorder differs from every other in the suite of symptoms they _____ (Answer: display) and the characteristics and intensity of those symptoms; thus, general descriptions of autistic behavior and characteristics do not _____ (Answer: apply) equally to every child.

Choices: display, figured, diagnosed, interact, inhibit, apply

It's crucial to _____ (Answer: underline) the significance of diligence when embarking on medical studies. The discipline required for medical studies is _____ (Answer: akin) to the meticulousness needed in scientific research, as opposed to the passive learning one might _____ (Answer: associate) with watching medical dramas on television. Those who prefer a more hands-off approach to learning may _____ (Answer: struggle) unless they cultivate a deep engagement with the _____ (Answer: rigorous) academic material.

Choices: struggle, rigorous, underline, same, split, refuse, associate, akin, severe

In this vertical farming approach, crops grow in stacked layers, often in controlled _____ (Answer: environments) like warehouses or skyscrapers. This method, _____ (Answer: harnessing) hydroponics and artificial lighting, maximizes space and conserves water. It's not just a farming method; it's a visionary step towards sustainable urban living, offering fresher _____ (Answer: produce) with a smaller carbon footprint. As cities grow, vertical farms could be key in feeding burgeoning populations while _____ (Answer: reducing) agriculture's environmental impact.

Choices: environments, harnessing, diversity, retiring, reducing, suggesting, globes, produce

One _____ (Answer: distinguishing) feature of business is its economic character. In the world of business, we interact with each other not as family members, friends, or neighbors, but as buyers and sellers, employers and employees, and the like. Trading, for example, is often _____ (Answer: accompanied) by hard bargaining, in which both sides conceal their full hand and perhaps _____ (Answer: engage) in some bluffing. And a skilled

salesperson is well - _____ (Answer: versed) in the art of arousing a customer's attention (sometimes by a bit of puffery) to _____ (Answer: clinch) the sale. Still, there is an "ethics of trading" that prohibits the use of false or deceptive claims and tricks such as "bait-and-switch" advertising.

Choices: distinguishing, compliant, engage, distribute, versed, extinct, gauge, informed, accompanied, clinch

Coral reefs can be found all over the world! However, most coral reefs grow in _____ (Answer: shallow), clean ocean waters on either side of the Equator, because they need sunlight and warm temperatures all year to _____ (Answer: survive). A lot of animals who live on the reef _____ (Answer: camouflage) themselves to blend amongst the coral, either to stay safe from other animals or to hide as they _____ (Answer: hunt).

Choices: chief, drag, collect, shallow, camouflage, survive, hunt, express

The tomato is probably the most widely grown _____ (Answer: vegetable) by the home gardener because of its _____ (Answer: food) value, many uses, and relative ease of _____ (Answer: culture). Originating in Central and South America, the tomato was domesticated in Mexico. There are many related _____ (Answer: wild) species in South America. "Tomati" was the name _____ (Answer: used) by Native Americans.

Choices: fruit, used, wild, stuff, culture, cooking, food, took, eating, vegetables

Technology and flexible work _____ (Answer: practices) have had a significant impact on today's busy companies. In terms of productivity, it seems the _____ (Answer: focus) has shifted from managing employees in the workplace to monitoring their total _____ (Answer: output) no matter where they choose to work. Whether this trend will continue depends to some _____ (Answer: extent) on how well it works for everyone concerned.

Choices: focus, deals, way, practices, selling, output, extent

El Nino usually lasts for about 18 months. The 1982-83 El Nino brought the most _____ (Answer: destructive) weather in modern history. Its effect was worldwide and it left more than 2,000 people dead and caused over eight billion pounds' _____ (Answer: worth) of damage. The 1990 El Nino will _____ (Answer: strike), but they are still not _____ (Answer: completely) sure what leads to it or what affects how strong it will be.

Choices: destructive, strike, worth, estimate, completely, starvation, stable

The deserts, which already _____ (Answer: occupy) approximately a fourth of the Earth's land surface, have in recent decades been _____ (Answer: increasing) at an alarming pace. The expansion of desert-like conditions into areas where they did not

_____ (Answer: previously) exist is called desertification. It has been estimated that an additional one-fourth of the Earth's land surface is _____ (Answer: threatened) by this process.

Choices: properly, opposing, reveal, occupy, threatened, increasing, calibrated, previously

It's that time again! Exams looming, essays or reports outstanding and you wonder where the year's gone already. You start _____ (Answer: wondering) how you're going to cope with it all. A limited amount of _____ (Answer: anxiety) can help you to be more motivated and more _____ (Answer: purposeful). It can help you to plan your work and to think more clearly and _____ (Answer: logically) about it. In other words, it can help you stay on top of things. Sit down at your desk and make a start on writing down all the things you have to do to _____ (Answer: prepare) for the exams.

Choices: emotion, wondering, logically, imaging, purposeful, prepare, score, anxiety, carefully

We now know through the work of neuroscientists that the human brain is wired to mimic other people, and this mimicry involves actual involuntary physiological _____ (Answer: experience) in the observer. Human beings tend to _____ (Answer: imitate) actions that they see. Physiologically, our brains include mirror neurons, which _____ (Answer: react) to actions that are seen as if we are doing the action ourselves. It is largely an unconscious and automatic experience. When we hear people speak, observe their vocal _____ (Answer: nuances), watch their posture, gestures, and facial expressions, etc, neural networks in our brains are stimulated by the "shared representations" generating feelings within us that _____ (Answer: reflect) the experience of those we are observing.

Choices: experience, nonsense, feeling, aim, imitate, react, nuances, differences, moderate, reflect

Exposure to gun violence makes adolescents twice as _____ (Answer: likely) to perpetrate serious violence in the next two years, according to a University of Michigan _____ (Answer: study). Researchers found there is a _____ (Answer: substantial) cause and effect _____ (Answer: relationship) between exposure and perpetration of violence. Jeffrey B. Bingenheimer, a doctoral student in health behaviour and health education, analysed five years of data from adolescents living in 78 neighbourhoods in Chicago. Bingenheimer is lead author on a paper in this week's journal Science.

Choices: likely, relative, study, teaching, probable, substantial, relationship, important

Scientists preparing for NASA's proposed Jupiter icy Moons Orbiter believe that Jupiter's moons Europa may be a corrosive mixture of acid and peroxide. Thus, it may not be the _____ (Answer: ideal) place for life to exist as was thought possibly to be the case. _____ (Answer: Virtually), all the information we have about Europa comes from the spacecraft Galileo, which completed its mission to study. _____ (Answer: Although)

the general perception of Europa is of a frozen crust of water ice harboring a salty subterranean ocean kilometer below, researchers studying the most _____ (Answer: recent) measurements say light reflected from the moons icy surface bears the spectral fingerprints of hydrogen peroxide and strong acids. _____ (Answer: However), they accept that it could just be a thin surface dusting and might not come from the ocean below.

Choices: ideal, recent, ideally, virtually, actually, although, Whatsoever, However, thus

Work-ready international students are providing greater options for local employers who are having difficulties _____ (Answer: finding) local staff due to _____ (Answer: high) employment rates and ongoing labour shortages. International students in accounting and information technology take part in a year-long program _____ (Answer: consisting) of classroom work and practical experience, which provides them with _____ (Answer: valuable) skills, industry contacts and a working _____ (Answer: knowledge) of Australian workplace.

Choices: finding, founding, managing, high, low, consisting, consists, valuable, precocious, knowledge, experience

Jupiter's moon Io is the most volcanically active world in the solar system, _____ (Answer: with) hundreds of eruptions occurring every year. These eruptions constantly reshape the surface of Io, erasing any signs of impact craters that may have formed from collisions with asteroids and comets. However, a keen-eyed amateur astronomer from Sweden has _____ (Answer: discovered) what may be the first crater ever seen on Io. Jesper Sandberg was browsing through old images from the Galileo spacecraft, which explored the Jupiter system from 1995 to 2003, when he _____ (Answer: noticed) a small, circular feature on Io's surface. The feature, which is about 100 meters across, appears to be a fresh impact crater surrounded by a bright ejecta blanket. Sandberg reported his finding to the Planetary Society, which confirmed that the feature had not been previously _____ (Answer: identified) or catalogued. The discovery of this crater could provide valuable _____ (Answer: insights) into the geology and history of Io, as well as the frequency and size of impactors in the outer solar system.

Choices: with, which, implicated, discovered, assembled, noticed, obliged, converted, identified, insights, fallacies

At times, a broad stream of knowledge flowed from China to Japan. At other times, this transfer was _____ (Answer: halted) on one side or the other, and Japan _____ (Answer: developed) on its own. But whether in isolation or not, Japan was always itself. Everything that _____ (Answer: arrived) from China was _____ (Answer: adapted) to suit Japanese tastes and needs.

Choices: adapted, removed, arrived, halted, created, explored, developed

Stress-- that tense feeling often connected to have too _____ (Answer: much) to do, too _____ (Answer: many) bills to pay and not _____ (Answer: enough)

time or money-- is a common emotion that knows few _____ (Answer: borders). About three-fourths of people in the US, Australia, Canada, France, Germany and Italy say they _____ (Answer: experience) stress on a daily basis, according to _____ (Answer: polling). The anxious feelings are even more intense during the holidays. Germans feel stress more intensely than those in other countries polled. People in the US cited financial pressure as the top worry.

Choices: enough, few, lines, expect, polling, much, experience, borders, many, little

Clones of an Eastern cottonwood (*Populus deltoids*) in the Bronx and other city spots grew to double the biomass of clones _____ (Answer: planted) outside small towns upstate or on Long Island, says Jillian Gregg, now of the Environmental Protection Agency's western-ecology division in Corvallis, Ore. The growth gap comes from _____ (Answer: ozone) damage, she and her New York colleagues report. Ozone chemists have known that _____ (Answer: concentrations) may spike skyscraper high in city air, but during a full 24 hours, rural trees actually get a higher cumulative ozone exposure from _____ (Answer: urban) pollution that blows in and lingers. A series of new experiments now shows that this hang-around ozone is the _____ (Answer: overwhelming) factor in tree growth, the researchers say in the July 10 *Nature*. "This study has profound importance in showing us most vividly that rural areas _____ (Answer: pay) the price for urban pollution," says Stephen P. Long of the University of Illinois at Urbana-Champaign. "This work should be a wake-up call," he adds.

Choices: pay, urban, oxygen, ozone, rural, gaps, spend, overwhelming, concentrations, planted, necessary, protected

Protestors see globalization in a different light than the Treasury Secretary of the United States. The differences in _____ (Answer: views) are so great that one wonders, are the protestors and the policy makers talking about the same _____ (Answer: phenomenon)? Are the visions of those in _____ (Answer: power) clouded by special and particular _____ (Answer: interests)? What is this topic of globalization that has been subject, at the same time, to such vilification and such praise? Fundamentally, it is the closer integration of the countries and the peoples of the world which has been _____ (Answer: brought) about by the enormous reduction in the costs of transportation and communication, and the breaking down of the _____ (Answer: artificial) barriers to the flow of goods, services, capital, knowledge, and, to a lesser extent, people across borders.

Choices: interests, articulate, phenomenon, turn, artificial, fraught, brought, ideology, power, views, consequences

Small lakes with a surface area of less than 100 m² represent the majority of global freshwater ecosystems. Many of these lakes are found in _____ (Answer: remote), often mountainous areas with no inflow and outflow. Yet in most of these lakes, there are fish. So how do fish reach lakes and ponds that are not connected to other bodies of water? This question was already addressed by some of the leading natural scientists of the 19th century such as Charles Darwin, Alfred Russel Wallace and Charles Lyell, who all came to the same conclusion – water birds must be responsible for fish _____ (Answer: dispersal). And they had a plausible explanation for this: fish eggs of some species are sticky and can survive for some time

out of water. The theory is thus that the fish eggs stick to water birds' _____
(Answer: feathers) or feet; the birds then fly from one body of water to the next, where the fish
_____ (Answer: hatch) from their eggs.

Choices: broad, dispersal, differ, hatch, feathers, evolution, remote, guts

In a large, multi-institutional effort _____ (Answer: led) by University of California
San Diego, researchers have analysed more than a million human brain cells to produce
_____ (Answer: detailed) maps of gene switches in brain cell types, and _____
(Answer: revealed) the links between specific types of cells and various common neuropsychiatric
disorders. The team also developed artificial intelligence tools to _____ (Answer:
predict) the influence of individual high-risk gene variants among these cells and how they may
_____ (Answer: contribute) to disease.

Choices: overlap, inhibit, revealed, predict, detailed, contribute, accelerated, spared, encouraged,
led

But look beyond fossil fuels for the most intriguing trends. One is that the energy intensity of the
world economy -- the amount of energy it takes to produce one dollar's _____
(Answer: worth) of income -- keeps falling, at a rate of about 2 percent. What this means is that
even without any change in the _____ (Answer: relative) shares of fossil-based and
fossil-free sources in the world's energy mix, we could have 2 percent annual economic growth
without increasing carbon emissions from energy use. Of course that is not enough to
_____ (Answer: address) climate change and we need more economic growth than
that. It is _____ (Answer: nonetheless) a stunning number, which refutes the claim by
some environmentalists that permanent economic growth is fundamentally incompatible
_____ (Answer: with) finite physical resources.

Choices: nonetheless, address, irrelevant, index, merge, worth, relative, however, with, by

The Nature Conservation Amendment Act of 1996 enables the Minister of Environment and
Tourism to register a conservancy if it has a _____ (Answer: representative)
committee, a legal constitution, which provides for the sustainable management and utilization of
game in the conservancy, the ability to _____ (Answer: manage) the funds, an
approved method for the _____ (Answer: equitable) distribution of benefits to
members of the community and defined boundaries.

Choices: manage, appropriate, exquisite, equitable, representative, legislative

Parents who have kids who are closer together in age tend to be a lot more tired and lot less able
to invest fully and wholeheartedly because they are just _____ (Answer: exhausted)
and resources are stretched. When you have longer gapped, you create less of a demand on
yourself, you're more emotionally _____ (Answer: capable), so you function better,
and your child gets a better _____ (Answer: version) of you — and for longer.

Choices: format, capable, version, unique, exhausted, heavy

Montego Bay is the second largest city in Jamaica by area and the third by population. It is a lively and _____ (Answer: bustling) beach resort and attracts a lot of tourists from many different countries with its _____ (Answer: sandy) beaches and _____ (Answer: peaceful) relaxing atmosphere. Many Americans and Europeans, as well as Jamaicans, have summer homes in Montego Bay, so it is a _____ (Answer: cosmopolitan) city and becomes more _____ (Answer: crowded) during the holiday seasons. It is most famous for Doctor's Cave beach, which has clear, turquoise waters.

Choices: hospital, bustling, peaceful, cosmopolitan, sandy, crowded, polluted, facilities

Parents' developmental histories, or their experiences as children, also affect their parenting _____ (Answer: strategies). Parents may learn parenting practices from their own parents. Fathers whose own parents provided monitoring, _____ (Answer: consistent) and age-appropriate discipline, and warmth were more likely to provide this constructive parenting to their own children. However, parents who are _____ (Answer: dissatisfied) with their own parents' approach may be more likely to change their parenting methods with their own children.

Choices: strategies, dissatisfied, consistent, stress, disowned, verifying

Deciding to go to business school is perhaps the simplest part of what can be a complicated process. With nearly 600 accredited MBA programs on _____ (Answer: offer) around the world, the choice of where to study can be overwhelming. Here we explain how to _____ (Answer: choose) the right school and course for you and unravel the application and funding process. "Probably the _____ (Answer: majority) of people applying to business school are at a point in their careers where they know they _____ (Answer: want) to shake things up, but they don't know exactly what they want to do with their professional lives," says Stacy Blackman, an MBA admissions consultant based in Los Angeles. "If that's the case with you, look at other _____ (Answer: criteria): culture, teaching method, location, and then pick a place that's a good fit for you with a strong general management program. Super-defined career goals don't have to be a part of this process."

Choices: standards, except, hold, offer, choose, deprive, minority, want, majority, criteria

In December 2020, the first vaccines _____ (Answer: based) on a type of genetic material known as mRNA rolled out to fight COVID-19. That was less than 12 months after the lethal disease came to the world's _____ (Answer: notice). Within a year, those new shots appeared to have saved nearly 20 million lives. Now, two biochemists who laid the _____ (Answer: groundwork) for mRNA vaccines have been _____ (Answer: awarded) the 2023 Nobel Prize in medicine or physiology.

Choices: awarded, installed, groundwork, equipment, measure, risen, notice, based

Living in cities that never sleep has its price: inhabitants are getting less, _____
(Answer: worse) quality, sleep. We cannot forget that sleep, though often undervalued, is a
_____ (Answer: fundamental) part of staying in good health. It is well _____
(Answer: established) that if we don't get enough, we end up getting sick.
Choices: impressed, worse, fundamental, massive, established, regulated

Whether it's in your morning espresso or an energy drink at the gym, caffeine might be such an
integral part of your _____ (Answer: routine) that you don't stop to think that it's
actually a psychostimulant – a drug that _____ (Answer: acts) on the brain.
Specifically, caffeine acts to block the brain chemical adenosine, which usually serves to
_____ (Answer: calm) us down physiologically, such as by lowering our blood
pressure and _____ (Answer: slowing) our breathing.

Choices: slowing, shut, routine, dragging, bases, temperature, acts, calm

In previous project work, the number of koalas was not known but distribution had been recorded
_____ (Answer: across) an area of 2000 square kilometres in _____
(Answer: habitats) featuring manna gum and the nationally endangered Eyre Peninsula blue gum
woodland communities. To _____ (Answer: date), there is no evidence to suggest that
koalas can self-regulate their numbers as kangaroos do. There were _____ (Answer:
concerns) koalas might eventually consume all the available food in an area, resulting in their own
_____ (Answer: starvation).

Choices: across, starvation, during, stimulation, time, date, niches, habitats, concerns, errors

By the 1820s Bentham had become a well-known _____ (Answer: figure), both in
Britain and in other parts of the world. His ideas were to influence the reforms of public
administration made during the nineteenth century, and his writings are still at the centre of
academic debate, especially regarding social policy, legal positivism, and welfare economics.
Bentham died on 6 June 1832, a day before the first Reform Act was given Royal Assent. As per the
directions in his will, Bentham's body was dissected by his friend, the surgeon Thomas Southwood
Smith, and his skeleton was _____ (Answer: preserved) as the Auto-Icon. Research into
Bentham's thought and life continues today at UCL's Bentham Project, set up in the early 1960s
with the aim _____ (Answer: of) producing the first scholarly edition of his works and
correspondence. This edition is projected to run to some eighty volumes. Members of the public
are invited to assist in this massive editorial task by helping to _____ (Answer:
transcribe) Bentham's manuscripts via Transcribe Bentham.

Choices: envisaged, figure, transcribe, among, preserved, of, transcend, characteristic

In our fast-paced modern lives, getting sufficient sleep is often overlooked, yet it
_____ (Answer: is) vital. And also, it is really important that you get enough sleep to
stay _____ (Answer: rested). Adequate sleep allows our body to repair and
rejuvenate, keeping our mind sharp. If you _____ (Answer: lack) enough sleep regularly,

you may feel drowsy, which _____ (Answer: impacts) concentration, saps energy, and even dulls reflexes, making daily tasks a struggle.

Choices: illuminating, traces, signals, thrilling, determining, glowing



LISTENING



SUMMARIZE SPOKEN TEXT

Wisdom Teeth

Do you have a third set of molars? In English, these molars are called your “wisdom teeth”. If you don’t have them, don’t worry! About 35% of people don’t have wisdom teeth. Their wisdom teeth may be impacted or they may not exist at all. The expression “wisdom teeth” comes from the age people usually are when these teeth emerge. The age between 17-25 is sometimes referred to as “the age of wisdom”. The emerging of the third molars has nothing to do with your brain capacity, however. Wisdom teeth emerge when a person’s dental arch becomes large enough to hold more teeth. Some people never develop a large enough space in their mouths. Others only get one wisdom tooth. Many people have wisdom teeth removed due to pain or crowding. Evolution may also play a part in why some people don’t get wisdom teeth. With forks and knives and processed food, humans don’t need as many teeth.

Journalism and Internet

David Olivia Garcia is a co-host of New Mexico in Focus and is also the managing editor for the New Mexico Independent, which is an online news website, he says that the Internet has some great benefits for journalism. The Internet is this new, amazing medium. Not so new: it's been around quite some time now. But it's maturing as, among other things, a place for journalism. In a sense, the Internet allows you to tell stories better than in a newspaper or on television. For this reason, you can do it all online: you can have the written word, you can have still photographs, you can have video. You can link and kind of connect to the other journalism that has been done on a given topic. So it's not like you're in a vacuum. The Internet has had a negative impact on these papers. However, John Fleck, who is a columnist for the Albuquerque Journal and also has his own blog, says that he doesn't think that's entirely the case. It really makes me more efficient as a journalist in terms of information gathering, confirmation, helping me get the background necessary to write a story. So it's really good for that.

Heat Island

I am glad to stand here today, to talk about a critical geographical phenomenon impacting urban areas globally: the Urban Heat Island effect. This effect refers to the observable fact that urban regions often experience higher temperatures than their rural surroundings, a consequence of modern urban development. The primary cause is the extensive use of concrete, asphalt, and other materials in urban construction that absorb and retain heat. Additionally, the dearth of vegetation in cities as compared to rural areas further exacerbates this effect. For instance, on hot summer days, cities like New York or Tokyo can be several degrees warmer than their surrounding countryside. The implications of the Urban Heat Island effect are significant. It leads to increased energy consumption as people rely more on air conditioning, contributes to the worsening of air

quality, and exacerbates the effects of heatwaves, posing a health risk to urban populations. To mitigate this, cities must adopt greener practices, such as planting more trees, creating urban green spaces, and using lighter-colored, heat-reflective materials in construction. Addressing the Urban Heat Island effect is not just about improving comfort; it's about creating sustainable, liveable urban environments for future generations."

Transportation

Transportation refers to systems which are designed to move people and goods. It provides people with access to what they value and need, to live their lives, build economies, and interact with the environment. Transportation is the backbone of a global network that trades over 18 trillion worth of goods and moves the world's population over 81 trillion kilometers every year. The system also impacts the climate. As of 2015, transportation accounted for 23% of the world's greenhouse gas emissions. One way to understand this complex system is by breaking it down into three different components: mode, fuel type, and technology.

Modes of transportation allow people and goods to move across air, land, and sea. People often move by human power, cars, and planes, while goods are transported by truck, rail, or ship.

Fuel is the crucial element that propels the transportation system. The primary fuel types are derived from human power, renewable fuels and fossil fuels. Different fuels and how they are consumed have distinct impacts on the climate and our air quality. When petroleum products are burned in vehicle engines, they release energy, but they also release greenhouse gases and other pollutants. Currently 95 percent of transportation is fueled by petroleum. However, other fuels like electricity and biofuels are becoming increasingly prevalent as we adopt new technologies. Technology refers to what the vehicle uses to move, like an internal combustion engine in a gas car or an electric motor in an electric vehicle. Technology is very greatly in efficiency. Efficiency determines how much of the fuel is actually used to propel a vehicle versus energy lost in the process

Meteor Showers

A meteor shower occurs when the trail of interplanetary debris, like the one left behind by comets or asteroids, enters the Earth's atmosphere. The interplanetary debris is mostly made up of space rocks, also called meteoroids. As the meteoroids fall toward Earth, they produce drag throughout the rock. This causes the meteoroid to heat up. The streak of intense light we see is the hot air left behind the burning rock.

When Earth encounters many meteoroids at once, we call it a meteor shower. Meteor showers are usually named for the constellation in which their radiant appears. The most common and famous meteor showers are Perseus Leonid Geminids and Lyra's. However; it is estimated that there are around 21 meteor showers every year, with most of them occurring between August and December.

Meteors enter Earth's atmosphere at speeds ranging from 25,000 miles per hour to 160,000 miles per hour. It's frightening to imagine all that interplanetary debris flying toward us. Cameras around the world have captured meteors falling from the sky and although some eventually hit, most of them disintegrate or burn off. The remaining pieces fall into the ocean.

Citizenship Education

Citizenship education is an important subject in schools as compared to the past. However, only 1/5 of schools have such courses that provide student right skills and attitudes. In the past, people were reluctant to teach. It is important for students in this changing world. There are still problems in teaching this subject due to lack of commitment and lack of teachers to teach. Criticism about the theory of citizenship education is ineffective, unless schools themselves reflected democratic practices by giving children the opportunity to have a say over decision making. It suggests that schools are fundamentally undemocratic institutions, and that such a setting cannot instil in children the commitment and belief in democratic values that is necessary for citizenship education to have a proper impact. Citizenship education is one critical element, and students will acquire knowledge of civics, including the principles of democracy and associated local, state and Australian government structure and processes. In addition, students will also learn to participate responsibly and cooperatively in community.

Citizenship curriculum is very important for students, but it is neglected by many schools. There are only 1/5 schools introduced this class to campus and allocated less time than other subjects. Moreover, the professor pointed out if given enough time in citizenship curriculum, it will be beneficial to improve student's skills and install positive attitude towards the changing world and tackle the issues such as lack of leadership.

Airplanes and Helicopters

The first controlled and sustained flight of an airplane was conducted in December of 1903 by the Wright Brothers. Years passed and airplanes became increasingly more sophisticated and powerful, but their design and functionality had several limitations—they needed a long runway to take off and land, and they weren't all that effective for certain purposes. These problems were solved, however, when another powerful flying machine was invented—the helicopter!

A helicopter or 'chopper' is a type of aircraft that uses rotating wings called rotor blades to fly; they are a critical component of any helicopter's flight. Helicopters have several advantages over fixed-wing aircraft. First of all, they don't need long runways to operate. They can take off and land pretty much anywhere. It doesn't matter if you're in the middle of a forest or the backyard of a house. This comes in very handy during military operations or even civilian and medical emergencies. Choppers can also pause mid-flight to load and unload cargo, which is why they're so widely used during rescue operations around the world. Although helicopters can't go as fast as airplanes, they are much more manoeuvrable and offer a great deal of flexibility in terms of the places you can go. The stock market is where investors connect to buy and sell investments - most commonly, stocks, which are shares of ownership in a public company. When you need groceries, you go to the supermarket. When you're ready to buy stocks or mutual funds, you'll usually buy them online through the stock market, which anyone can access with a brokerage account or employee retirement plan. The term 'stock market' often refers to one of the major stock market indexes. However, there are some different uses of the stock market before and after. In the 18th century, manufacturing companies came into the market. Traditional companies used stocks to raise money, and input money into companies, while modern companies used stocks to output money. From 19th to 20th century, however, modern companies, such as Apple, Google and Microsoft are big enough to earn money, and use stocks differently. The stock market also inclined to put money into big companies.

Crane Communication

We all know that outside the world of Sesame Street, big birds can't talk. However, our own big bird, the five-foot tall Whooping Crane, can communicate in a variety of other ways. Their inability to talk doesn't mean that the tall white birds are silent. Thanks to specialized looped windpipes, their calls can be heard for miles in their wetland homes. Often, a mated pair will call simultaneously, a behavior known as unison calling. These calls allow the male and female to strengthen their pair bond and tell rival cranes and other potential threats they need to give the pair some space.

If an intruder gets close, the cranes may turn to more visual displays. Whooping Cranes' heads are crowned with a patch of bare red skin. Cranes warn encroaching individuals that they are too close by tilting their heads down to display this patch. They can also direct more blood flow to it, making the red brighter and the patch larger. More visible red means an angrier crane. But not all crane communication is aggressive. Whooping Crane pairs, which mate for life, participate in a spectacular dancing display. They bow to one another, spread their wings, toss bits of grass or sticks above their heads, and jump high into the air. We believe this dance reaffirms their pair bond, which must be strong for the couple to defend a territory and successfully raise chicks. Dancing and playing also may serve as a way for cranes to blow off steam, and reduce stress levels. They also may dance because it's just plain fun!

Leadership

A leader can define or clarify goals by issuing a memo or an executive order, an edict or a fatwa or a tweet, by passing a law, barking a command, or presenting an interesting idea in a meeting of colleagues. Leaders can mobilize people's energies in ways that range from subtle, quiet persuasion to the coercive threat or the use of deadly force. Sometimes a charismatic leader such as Martin Luther King Jr. can define goals and mobilize energies through rhetoric and the power of example.

We can think of leadership as a spectrum, in terms of both visibility and the power the leader wields. On one end of the spectrum, we have the most visible: authoritative leaders like the president of the United States or the prime minister of the United Kingdom, or a dictator such as Hitler or Qaddafi. At the opposite end of the spectrum is casual, low-key leadership found in countless situations every day around the world, leadership that can make a significant difference to the individuals whose lives are touched by it.

Over the centuries, the first kind-the out-in-front, authoritative leadership-has generally been exhibited by men. Some men in positions of great authority, including Nelson Mandela, have chosen a strategy of "leading from behind"; more often, however, top leaders have been quite visible in their exercise of power. Women (as well as some men) have provided casual, low-key leadership behind the scenes. But this pattern has been changing, as more women have taken up opportunities for visible, authoritative leadership.

Growth Mindset

There is a lot that we can do to change mindsets, but here are three things that any of us can do to instill a growth mindset in ourselves and in those around us. First, recognize that the growth mindset is not only beneficial but it is also supported by science. Neuroscience shows that the brain changes and becomes more capable when we work hard to improve ourselves. Second, learn and teach others about how to develop our abilities. Learn about deliberate practice and what makes

for effective effort. When we understand how to develop our abilities, we strengthen our conviction that we are in charge of them. And third, listen for your fixed mindset voice, and when you hear it, talk back with a growth mindset voice. If you hear, “I can’t do it,” add, “Yet.” My request to you today is that you share this knowledge about the growth mindset with your family, friends, and schools so that all of us can go and fulfil our potential.

Stressful Situations

Why do we sometimes fail to perform up to what we’re capable of when the pressure is on? It may not be so surprising to hear that in stressful situations, we worry. We worry about the situation, the consequences, what others will think of us. But what is surprising is that we often get in our own way precisely because our worries prompt us to concentrate too much. That’s right — we pay too much attention to what we’re doing. When we’re concerned about performing our best, we often try and control aspects of what we’re doing that are best left on autopilot, outside conscious awareness, and as a result, we mess up. Think about a situation where you’re shuffling down the stairs. What would happen if I asked you to think about what you’re doing with your knee while you’re doing that? There’s a good chance you’d fall on your face. We as humans only have the ability to pay attention to so much at once, which is why, by the way, it’s not a good idea to drive and talk on the cell phone. And under pressure, when we’re concerned about performing at our best, we can try and control aspects of what we’re doing that should be left outside conscious control. The end result is that we mess up. My research team and I have studied this phenomenon of over attention, and we call it paralysis by analysis.

Dancing Bees

Honeybees do a waggle dance to direct other bees to sources of nectar, but dancing bees like this one can be halted by a headbutt from another bee. Now, researchers have found that this headbutt is actually a warning signal. A feeding station was set up in the lab to mimic a source of nectar. Then foraging bees were introduced to dangers at the station, such as competition from rival colonies. When foragers returned to the hive, they stopped bees dancing. Scientists think the behavior warns dancers of a dangerous source of nectar.

Housing Price in Australia

Why is Australian housing so expensive? Essentially, it’s showing of how well the Australian economy has been doing over the last 15 years. We have had 15 years more or less of an uninterrupted economic growth during which average earning has been raised by close to 90 percent. While over the course of that period, the standard variable mortgage rate has roughly halved. That meant that the amount which a typical home buying household can afford to borrow under rules which aren’t strictly applied as they used to be had more than doubled. Over the same period, rising immigration in falling average household size has meant that the number of households looking for accommodation has risen by about one and a half million. That’s around 200 thousand more than the number of dwellings has increased by. So, you have had a substantial increase in the purchasing power of households. No net increase in the supply of housing enhances all that additional purchasing power has gone into pushing up the price of housing.

Introverts

Nowadays, most schools and most workplaces are set up with the extrovert in mind. Children no longer sit in rows in desks, they sit in groups of four or six, doing group projects. Even subjects like maths and creative writing are taught with an emphasis on group collaboration, even though most writers sit alone in front of their computer or typewriter, with nothing between them and the blank page. A kid who prefers to go off into a corner and work alone starts to look like a problem. What's wrong with Janie? Why isn't she joining in?

Studies show teachers think extroverts make better students, even though introverts actually tend to get higher grades. We're telling our introverted kids something is wrong with them, that they need to be more sociable, more outgoing. We're giving them fewer opportunities for the quiet contemplation they need in order to produce the best work and be their best selves.

I'm not saying let's get rid of extroverts and grab all those talkative, sociable performers at primary school and send them off to the library for four hours a day of solitude until they learn to tone it down. I'm not saying that at all. I'm saying we're doing something like the opposite of that to introverts and we need to stop. We need to allow them space to be themselves and then we'll end up getting the most out of our extroverts and our introverts.

Supersonic Boom

This time we'll look at how the size and altitude of a plane influence the intensity and duration of the sonic boom.

The sonic boom is a direct result of a change in the air-flow pattern around a plane's edges. The moment a plane hits speeds faster than about 768 miles per hour, or the speed of sound, it creates shock waves that travel in all directions. When these shock waves hit the ground, we hear a sonic boom.

As a general rule, the bigger the aircraft, the larger the shock waves and the longer the duration of the sonic boom. The smallest aircraft capable of traveling faster than the speed of sound generates a boom that lasts one twentieth of a second. The largest supersonic aircraft creates a boom that lasts ten times longer, or half a second. However, two aircraft the same size flying at different altitudes will create sonic booms of different intensities. A craft flying higher will create a less intense sonic boom at ground level, because the shock waves have farther to travel before hitting the ground, and therefore have more time to dissipate. The sonic boom created by this high flying plane will be heard by a larger geographic area than the boom created by a low flying plane because as the shock waves travel to the ground, they spread out and increase the radius they affect. Luckily, even the most intense sonic booms can't hurt people, but they have been known to damage plaster walls and break windows.

Human Rights

What exactly are the basic human rights? Who gets to pick them? Who enforces them, and how? The history behind the concept of human rights is a long one. Throughout the centuries and across societies, religions, and cultures we have struggled with defining notions of rightfulness, justice, and rights. But one of the most modern affirmations of universal human rights emerged from the ruins of World War II with the creation of the United Nations. The treaty that established the UN gives us one of its purposes to reaffirm faith in fundamental human rights. And with the same spirit, in 1948, the UN General Assembly adopted the Universal Declaration of Human Rights. This document, written by an international committee chaired by Eleanor Roosevelt, lays the basis for modern international human rights law. The declaration is based on the principle that all human beings are born free and equal in dignity and rights. It lists 30 articles recognizing, among other things, the principle of non-discrimination and the right to life and liberty. It refers to negative freedoms, like the freedom from torture or slavery, as well as positive freedoms, such as the freedom of movement and residence. It encompasses basic civil and political rights, such as freedom of expression, religion, or peaceful assembly, as well as social, economic, and cultural rights, such as the right to education and the right to freely choose one's occupation.

Resilience

In our fast-paced, ever-changing world, resilience has become more crucial than ever. Resilience is not about avoiding difficulties, but about navigating through them. It's the skill to bounce back from adversity, a trait that can be developed and strengthened over time. For example, someone who overcomes a personal loss and finds a way to grow from the experience demonstrates high resilience. But how do we cultivate this resilience? It begins with fostering a positive mindset, practicing self-care, and building strong social connections. Mindfulness and cognitive behavioral techniques can also be instrumental in developing coping strategies. Furthermore, resilience isn't just an individual journey. Supportive environments, whether in families, workplaces, or communities, play a vital role in nurturing resilience. Recognizing and managing stress, providing emotional support, and encouraging open communication are key factors. Understanding and developing psychological resilience can profoundly impact our well-being. It equips us to handle life's challenges more effectively, leading to improved mental health and overall life satisfaction.

Democracy

In this discourse, we explore the core principles of democracy and the contemporary challenges it faces. Democracy, at its heart, is about the power of the people. It's a system where governance is based on the collective decision of its citizens, often exercised through free and fair elections. Key to democracy is the rule of law, ensuring that all individuals, including leaders, are accountable to the laws. Equally important is the protection of fundamental human rights, ensuring freedom of speech, assembly, and religion. However, today's democratic societies face numerous challenges. The rise of misinformation and digital manipulation poses a threat to informed decision-making, a cornerstone of democratic processes. Populism and polarization are also undermining the ethos of consensus-building and inclusive governance. Moreover, the challenge of ensuring true representation in a diverse society remains. Democracy must evolve to represent all segments of society fairly, addressing issues of marginalization and ensuring that every voice is heard.

Glass Ceiling

The glass ceiling is an idea familiar to many. It refers to the invisible barrier that seems to exist in many fields and which prevents women from achieving senior positions. Less well-known, but arguably a more pernicious problem, is the 'glass cliff'. Originally recognised by academics Michelle Ryan and Alex Haslam back in 2005, this is the phenomenon of women making it to the boardroom but finding themselves disproportionately represented in untenable leadership positions. Ryan and Haslam presented evidence that women were indeed starting to secure seats at boardroom tables. But the problem was that their positions were inherently unstable. These women would then find themselves in an unsustainable leadership position from which they would be ousted with evidence of apparent failure. The title of their paper sums it up: women are over-represented in precarious leadership positions. Subsequent research in an array of environments has demonstrated that this is not an isolated issue, nor is it unique to certain industries or geographical locations. It reveals that women in top leadership positions seem to be routinely handed inherently unsolvable problems.



FILL IN THE BLANKS LISTENING

So, what is quantum mechanics? Even though it was discovered by _____ (Answer: physicists), it's not a physical theory in the same sense as electro _____ (Answer: magnetism) or general relativity. In the usual " _____ (Answer: hierarchy) of sciences" -- with biology at the top, then chemistry, then physics, then maths -- quantum mechanics sits at a _____ (Answer: level) between maths and physics that I don't know a good name for. Basically, quantum mechanics is the _____ (Answer: operating) system that other physical theories run on as application software (with the _____ (Answer: exception) of general relativity, which hasn't yet been successfully ported to this particular OS).

Belief is the human capacity to imagine, to be creative, to hope and dream, to infuse the world with meanings, and to cast our aspirations far and wide. Limited neither by personal experience nor _____ (Answer: material) reality. Believing is a _____ (Answer: commitment), an investment, a devotion to possibilities. Beliefs _____ (Answer: permeate) neurobiologies, bodies and ecologies acting as dynamic agents in evolutionary processes. The human capacity for belief, the _____ (Answer: specifics) of belief, and I, and our diverse belief systems shape, structure and alter our daily lives, our societies, and the world around us.

For many years the favorite horror story about _____ (Answer: abrupt) climate change was that a shift in ocean currents could _____ (Answer: radically) cool Europe's climate. These currents, called the overturning _____ (Answer: circulation) bring warm water and warm temperatures north from the equator to Europe. Susan Loosier, an _____ (Answer: oceanographer) at Duke University, says scientists have long worried that this ocean circulation could be disrupted.

The earlier chocolate was quite unpalatable. They used to add things to it to make it more palatable, so for the early chocolate, they didn't know how to extract all the _____ (Answer: cocoa) fat from it, so it was, or could be quite _____ (Answer: greasy) and if you made it as a drink you'd have this sort of scum on the top. So, they used to try and add things to it, like _____ (Answer: starch) and things, to make it a more palatable product. So, there were a lot of _____ (Answer: scandals) around the kind of things they were adding to chocolate in the nineteenth century. So, by the sort of 1870s, 1880s, there are people like Cadbury's saying, 'Our chocolate is absolutely pure'. We have this new process, the Van Houten process which now extracts all this _____ (Answer: horrible) fat that we can use to make eating chocolate. Now we have a pure product.

On August 4, _____ (Answer: explosives) aboard two drones flying near Venezuelan President Nicolás Maduro as he spoke in Caracas were detonated. Seven people were injured. Maduro has used the _____ (Answer: incident) as a pretext to crack down on Venezuela's opposition by unleashing the regime's secret police. State Department Spokesperson Heather Nauert said, "The United States _____ (Answer: condemns) the political violence that occurred on August 4 and urges the Maduro regime to respect the rule of law, exercise restraint, and safeguard the presumption of innocence for all _____ (Answer: accused)."

For all his fame and celebration, William Shakespeare remains a _____ (Answer: mysterious) figure with regards to personal history. There are just two primaries _____ (Answer: sources) for information on the Bard: his works, and various legal and _____ (Answer: church) documents that have survived from Elizabethan times. Naturally, there are many _____ (Answer: gaps) in this body of information, which tells us little about Shakespeare the man.

The Venezuelan _____ (Answer: authorities) say they have suppressed, what they termed, a terrorist attack on an army base in the City of Valencia. Diosdado Cabello of the governing United Socialist Party, said _____ (Answer: loyal) troops re-established security at the base. Officials said 7 people have been arrested and at least one of them died. Afghan officials say at least 50 people, including women and children, have been killed by _____ (Answer: militants) in the northern _____ (Answer: province) of Sari Pul. A spokesman told BBC that insurgents attacked security checkpoints and entered a village, killing civilians, among them women and children. He said Taliban and Islamic State fighters were involved, but Taliban has _____ (Answer: denied) killings civilians. They say they killed 28 members of a local militia.

This year marks the 400th anniversary of the first _____ (Answer: permanent) English settlement in America. A group of Englishmen, including John Smith, who _____ (Answer: later) was befriended by Pocahontas, built a _____ (Answer: fort) at Jamestown, Virginia in 1607, 13 years before the Pilgrims crossed the _____ (Answer: Atlantic) on the Mayflower. And for the past 14 years, Bill Kelso has been working to _____ (Answer: uncover) the secrets of Jamestown.

Now that story's been scotched, as only part of contingency planning. But it was a symptom of the dramatic turn of events in South Australia, and it flushed out other remarks from water _____ (Answer: academics) and people like Tim Flannery, indicating that things were really much worse than had been _____ (Answer: foreshadowed), even earlier this year. So is Adelaide, let alone some whole _____ (Answer: regions) of South Australia, in serious bother? Considering that the vast amount of its drinking water comes from the _____ (Answer: beleaguered) Murray, something many of us outside the State may not have quite realized. Is them _____ (Answer: predicament) something we have to face up to as a nation?

It was another roller-coaster week for energy prices. After OPEC and its allies _____ (Answer: resisted) calls to increase output, the price of Brent crude surpassed \$80 per barrel and reached its highest level in three years. The cartel said it would _____ (Answer: stick) to the gradual increases in output it agreed to over the summer. The energy _____ (Answer: shortage) rattled other financial markets too, as _____ (Answer: investors) worried about the fallout. In America and Europe government bond _____ (Answer: yields) climbed. In Britain the yield on ten-year gilts jumped to its highest since May 2019.

That brings us to the CEO's second duty: building _____ (Answer: everyone) or more accurately, building the senior team. All the executives report to the CEO, so it's the CEO's job to

_____ (Answer: hire), fire, and manage the executive team. From _____ (Answer: coaching) CEOs, I actually think this is the most important skill of all. Because when a CEO hires an excellent senior team, that team can keep the company running. When a CEO hires a poor senior team, the CEO is up _____ (Answer: spending) all of their time trying to do with the team, and not nearly enough time trying to do with other elements of their job. The senior team can and often does _____ (Answer: develop) the strategy for the company, but ultimately, it's always the CEO who has the final 'go-no-go' decision on strategy.

As a _____ (Answer: consumer), you're probably consuming imports. If we have a trade war and we start _____ (Answer: slapping) tariffs on all of those _____ (Answer: imports), the bill is going to be higher. If the world _____ (Answer: relies) so much on trade, what is a trade war and why do countries get _____ (Answer: caught) up in them in the first place?

Privacy and the right to privacy are increasingly becoming hot _____ (Answer: topics) in the media, which is a touch _____ (Answer: ironic), given that it is often the media that is responsible for invasion of privacy. This is not just about those whose careers put them in the public eye, but ordinary people who through no fault of their own have come to public notice because of some event that has attracted the attention of the media. It might be that a member of their family has been _____ (Answer: imprisoned) for some crime, _____ (Answer: rightfully) or wrongfully, or perhaps they are the _____ (Answer: victims) of some natural disaster. Some people argue that those who have chosen to be in the public sphere, and have teams of public _____ (Answer: relations) people to make sure they get as much public attention as possible - actors, rock stars, politicians and the like - have given up their right to privacy and get everything they deserve.

Doctors have been concerned for a long time about people googling their symptoms. There's this term "Dr. Google," which is really frustrating to a lot of _____ (Answer: physicians), because people come in and think that they know what they have without having the actual _____ (Answer: expertise) or context, just by having looked up, "I have a headache. What does it mean?" GPT software is much better at actually being accurate in _____ (Answer: determining) what patients have and asking sometimes follow-up questions that will help it further hone in on the correct diagnosis. Companies are starting to study this. And _____ (Answer: preliminary) research suggests the AIs are surprisingly accurate. Studies have shown that they work better than online symptom checkers—which are websites that let you input your symptoms and spit out a diagnosis. They're also better than some _____ (Answer: untrained) humans.

The thing that makes it difficult is because even if life had evolved on Mars, the chances of being preserved are very small. If we use Earth as a _____ (Answer: reference) and our planet is teeming with life, yet it rarely preserves evidence of life of the fossil record. And the focus now is on exploring for _____ (Answer: habitable) environments. If you're looking for water, a _____ (Answer: source) of energy, either solar energy or thermal energy or chemical energy, and then _____ (Answer: organic) carbon, assuming life as we know it on Earth based on carbon. So those are sort of the three things that we're looking for in the course of our mission.

Many different types of bar code scanning machines exist, but they all work on the same fundamental principles. They all use the _____ (Answer: intensity) of light reflected from a series of black and white stripes to tell a computer what code it is _____ (Answer: seeing). White stripes reflect light very well, while black stripes reflect hardly any light at all. The bar code scanner shines light _____ (Answer: sequentially) across a bar code, simultaneously detecting and recording the pattern of reflected and non-reflected light. The scanner then _____ (Answer: translates) this pattern into an electrical signal that the computer can understand. All scanners must include computer software to interpret the bar code once it's been entered. This simple principle has transformed the way we are able to _____ (Answer: manipulate) data and the way in which many businesses handle recordkeeping.

The banana is the first _____ (Answer: cultivated) fruit. It's one of the food items that literally brought people out of the jungle, out of their hunter-gatherer lifestyles and was there at the _____ (Answer: dawn) of agriculture which is what helped force human beings into communities. It's really one of the things that helped invent human culture. It's about 7000 years of history, and the banana, from its center of _____ (Answer: origin), which is believed to be Papua New Guinea, spread out with people who traveled in boats across the Pacific into the _____ (Answer: mainland) of Asia and all the way south to Australia across Indonesia and Micronesia and eventually they moved as far as Africa and even possibly to Ecuador all in this time and all on paddle boats and wind driven boats.

UNICEF is warning that schools in Haiti are _____ (Answer: increasingly) at the mercy of gangs, with children becoming _____ (Answer: targets) of robbery or ransom. The agency said Tuesday at least seven schools in the capital of Port-au-Prince have been forced to pay unidentified gangs in _____ (Answer: exchange) for security in the past two months and that _____ (Answer: additional) institutions have also been threatened. The warning comes days after authorities said gang members killed a university professor they had recently _____ (Answer: abducted). In addition, U.S. and Haitian authorities are still trying to secure the release of 17 missionaries from a U.S. religious organization who were kidnapped on October 16 near the capitol.

In 1945, while in a state of _____ (Answer: exhaustion), the mathematician John von Neumann had a kind of stammering premonition. He was in Los Alamos, working on the atom bomb, and he told his wife Klari that the "energy source" he was helping to develop would make scientists "the most hated and also the most wanted _____ (Answer: citizens) of any country". Then he _____ (Answer: informed) her that his other ongoing project, the computer, would one day be even more important—and _____ (Answer: potentially) even more dangerous. Good biographies of some of the greatest mathematical minds are rare: because they were polymaths, biographers who can _____ (Answer: interpret) their manifold achievements for the ordinary mortal are themselves thin on the ground. This has been von Neumann's fate, and the upshot is that he has not had the recognition he deserves.

Last year, astronomers observed two neutron stars collide. A crash _____ (Answer: transmitted) in gravitational waves to detectors here on Earth. Represented in sound, you can hear

a small upwards sweep in frequency, in the data, if you listen closely. Several seconds later, the first waves of electromagnetic radiation arrived here on Earth - the first time a collision has been detected by both light and gravitational waves. And it's in studying the electromagnetic _____ (Answer: echoes) of the collision that astrophysicists have gotten a far better _____ (Answer: glimpse) of what really happened after those binary neutron stars merged, 130 million light years away. "Oh yeah, absolutely, so it gives us an understanding of _____ (Answer: basically) all the nitty-gritty of what's going on after the merger takes place." Kunal Mooley, an astrophysicist at Caltech. First, he says, the stars collided, creating a massive, black-hole-like object, which started sucking up the cloud of neutron-rich cosmic debris left over from the crash. But its _____ (Answer: appetite) was limited. "It cannot eat all of it, so some bit of it basically escapes." Those escaping leftovers spewed outward into space, as a powerful jet. But along the way, Mooley says, the jet appears to have interacted with that cloud of neutron-rich material, blowing up a sort of cocoon within the debris _____ (Answer: floating) around the collision. Until finally, the jet burst out and slammed into interstellar space releasing yet more radiation we could detect here on Earth.

Hi everybody. This weekend, we'll _____ (Answer: dedicate) the newest American icon on our National Mall- the National Museum of African American History and Culture. It's a beautiful building, five stories high and some 70 feet below the ground, _____ (Answer: situated) just across the street from the Washington Monument. And this museum tells a story of America that hasn't always taken a front seat in our national _____ (Answer: narrative). As a people, we've rightfully passed on the tales of the _____ (Answer: giants) who built this country. But too often, willful or not, we've chosen to _____ (Answer: gloss) over or ignore entirely the experience of millions upon millions of others. But this museum chooses to tell a fuller story. It doesn't _____ (Answer: gauze) up some bygone era or avoid uncomfortable truths. Rather, it embraces the _____ (Answer: patriotic) recognition that America is a constant work in progress; that each successive generation can look upon our imperfections and decide that it is within our collective power to _____ (Answer: align) this nation with the high ideals of our founding.

Here are a couple different stories you can talk about our economy. One goes like this. Eight years after the _____ (Answer: worst) economic crisis of our lifetimes, our economy has created jobs for 71 straight months. That's a new record. _____ (Answer: Unemployment) has fallen below five percent. Last year, the _____ (Answer: typical) household saw its income grow by about twenty-eight hundred dollars – the biggest one-year increase ever. And the _____ (Answer: uninsured) rate is at an all-time low. All that is true. What's also true is that too much of our wealth is still taken by the top and that leaves too many families still working paycheck to paycheck, without a lot of _____ (Answer: breathing) room. There are two things we can do about this. We can prey on people's worries for _____ (Answer: political) gain. Or we can actually do something to help working families feel more secure in today's economy. Count me in the _____ (Answer: latter) camp. And here's one thing that will help right away: making sure more of our families have access to paid leave. Today, having both parents in the workforce is an economic _____ (Answer: necessity) for many families. But right now, millions of Americans don't have access to even a single day of paid sick leave.

When the time comes, its peers should follow suit. Of these, the European Central Bank faces the trickiest _____ (Answer: challenge), because it has acted as, in effect, the backstop to euro-zone bond markets, a _____ (Answer: mechanism) that otherwise the currency bloc still lacks. But the main safety valve lies elsewhere, with banks and investors. Bitter experience has

shown that debt-funded assets can _____ (Answer: magnify) losses, causing financial crises. For this reason banks must be able to withstand any reversal of today's high asset prices and low defaults. That means raising bank capital in places where it is too low, _____ (Answer: especially) the euro zone, and not backsliding on strenuous "stress tests" as America's Treasury proposes. In the end, however, there may be no escape for investors from the low future returns and even losses that high asset prices imply. They and _____ (Answer: regulators) should take a leaf out of "The _____ (Answer: Intelligent) Investor", and make sure that they have a margin of safety.

So, a lot of the research on happiness starts with the basic question: How happy are you? And we're

_____ (Answer: psychologists), so tell us on a scale of 1 to 10, where 5 is average, 10 is super-duper. The most common answers, interestingly enough, are high; they're 7 or 8. It turns out that most people think that they're _____ (Answer: pretty) happy. This question has been asked all over the world and it turns out that there are slight differences depending on how _____ (Answer: old) you are; there are slight differences depending on your _____ (Answer: place) within a country, California versus New York; there are slight, subtle differences between men and women at different _____ (Answer: points). Somewhat paradoxically, although women are more _____ (Answer: vulnerable) to depression than men, still, on average, women are slightly happier than men.

A new process for 3D-printing things could pave the way for lighter, faster aircraft that _____ (Answer: potentially) fly further on the same amount of fuel. Today's aeroplanes are held together with thousands of metal rivets and fasteners. That's because the lightweight but strong _____ (Answer: aluminium) alloys used for their frames are considered unweldable. Try to weld them and you get a phenomenon called hot-cracking, in which the finished alloy weakens and _____ (Answer: fractures) as it cools. This and other adverse welding effects also stand in the way of 3D-printing high-strength aluminium alloy parts. When researchers have tried, the resulting laser-fused mass _____ (Answer: flakes) away at the welding area like a stale biscuit.

These two paintings, both called "Sunflowers," are generally accepted as the finest of several _____ (Answer: depictions) of the thick-stemmed, nodding blooms that Van Gogh made in 1888 and 1889 during his time in Arles. The first is now in the collection of the National Gallery in London, and the second is in the Van Gogh Museum in Amsterdam. Van Gogh referred to this work as a _____ (Answer: repetition) of the London painting. But art historians and curators have long been _____ (Answer: curious) to know how different this "repetition" is from the first. Should it be considered a copy, an independent artwork or something in between? An _____ (Answer: extensive) research project conducted over the past three years by conservation experts at both the National Gallery and the Van Gogh Museum has concluded that the second painting was "not intended as an exact copy of the _____ (Answer: original)," said Ella Hendriks, a professor of conservation and restoration at the University of Amsterdam, who was the lead researcher on the project.

I think it's really important for young people not to feel _____ (Answer: restricted) in their choices and also to be aware of the choices that are available to them and obviously the media has an _____ (Answer: incredibly) important role to play in that. I think we _____ (Answer: tend) to talk about science as this big kind of monolith but of course actually it's this beautiful multifaceted thing. You know, there's almost something for everybody there. And there are so many different _____ (Answer: aspects) of it. You know, somebody that's going to be attracted to working in biology might be a very different person from somebody who's attracted to engineering. I suppose it's about knowing the breadth of _____ (Answer: opportunities) that are out there and so anything that universities and broadcast media can do to make sure that those opportunities are visible.

For many years the favourite horror story about _____ (Answer: abrupt) climate change was that a shift in ocean currents could _____ (Answer: radically) cool Europe's climate. These currents, called the overturning _____ (Answer: circulation) bring warm water and warm temperatures north from the equator to Europe. Susan Loosier, an _____ (Answer: oceanographer) at Duke University, says scientists have long worried that this ocean circulation could be disrupted.

Crows, she says, are what's known as "partial migrants." Every year, some members of the population migrate between breeding grounds and their overwintering grounds--like parking _____ (Answer: lots). But others just stay put. So, Townsend and her colleagues wanted to know if that urge to migrate was something individual crows can turn on and off. To find out, they captured 18 crows from overwintering spots in California and New York. They fitted the birds with little backpack satellite tags, and _____ (Answer: tracked) them for several years. Overall, three quarters of the birds migrated, an average of 300 miles. And more importantly, if they migrated once, they did it every year--suggesting _____ (Answer: traveling) is not a _____ (Answer: habit) they switch on and off. The researchers also found that migrating crows returned _____ (Answer: faithfully) to the same breeding grounds every year--but were more _____ (Answer: flexible) on where to overwinter. Which could be a good thing.

Cities and towns are not only growing in size and number. They are also gaining new influence. The urban _____ (Answer: transition) offers significant opportunities to improve the quality of life, but whether this potential is realized depends _____ (Answer: critically) on how cities are managed and on the national and local policies affecting their development. The development of urban areas is also closely _____ (Answer: linked) to the rural economy through the exchange of labor, goods, services, information and technology. _____ (Answer: Neglecting) urban issues leads to significant social and environmental costs, however. In the two most _____ (Answer: urbanized) regions that the World Bank serves, Latin America and Europe/Central Asia, over half of the poor already live in urban areas. By 2025, two-thirds of the poor in these regions, and one-third of the poor in East and South Asia, will reside in cities or towns. The nature of urban _____ (Answer: poverty) is more than an income or employment issue, and is also characterized by _____ (Answer: squalid) living conditions; risks to life and health from poor _____ (Answer: sanitation), air pollution, crime and violence, traffic accidents, and natural disasters, and the breakdown of traditional familial and _____ (Answer: communal) safety nets. Urban populations are also particularly hard hit by macro-financial shocks, such as the recent crises in East Asia and Russia. Urban environmental

_____ (Answer: degradation) has the most immediate effects on poor urban residents but also has serious national and global impacts.

Modern wealth has been created mainly through the action of market forces, which now _____ (Answer: dominate) the whole of the industrial world. It is based on the _____ (Answer: false) premise that we all start at an equal point. Of course nobody starts at the same point. Market forces help a few to become very wealthy at the _____ (Answer: expense) of the many who become poorer. This is taking place all over the world. There is an increasing number of hungry and _____ (Answer: desperate) people living in utter poverty. Yet there are millionaires of all nationalities throughout the developed world. Market forces are _____ (Answer: inevitably) acting to divide our world because they _____ (Answer: separate) one section of society from another. Strangely enough, to create a society based on the free play of market forces, there must be a very strict control over the economy to ensure business efficiency. This is the poison of _____ (Answer: commercialization). It imposes restrictions on the natural needs of society. When the politicians are not meeting the needs of society, the people _____ (Answer: revolt). When the people's voice is not heard, there will inevitably be a _____ (Answer: revolution). Part of that revolution is the growing crime rate and the _____ (Answer: violent) street protests which are the result of the _____ (Answer: imbalance) of our society — too great wealth side by side with too great poverty.

Most likely a Mars mission will require _____ (Answer: transporting) most of the necessary supplies and equipment by unmanned spacecraft to the chosen landing area and _____ (Answer: confirming) their operable condition before the first _____ (Answer: astronauts) even arrive. During their long, confined stay, the Mars pioneers may live in an inflatable modular housing unit as a possible _____ (Answer: replacement) for the U.S. crew quarters on the International Space Station. The cylindrical structure would be 27 ft. in _____ (Answer: diameter) and have a foot-thick protective shell when _____ (Answer: inflated). The shell would be made of almost two dozen layers of material that is stronger than steel. It would also provide _____ (Answer: insulation) from the extreme Martian temperatures that range from -128.3°C during the polar night to 26.6°C at the _____ (Answer: equator). The module would consist of four levels, for work, health care, crew quarters, and a galley area. The space travellers will drive for miles across the planet's diverse _____ (Answer: terrain) in advanced-type roving vehicles equipped with specialized tools, drills, and _____ (Answer: analytical) instruments. Much of their time will be spent searching for water and past and present _____ (Answer: evidence) of Martian life forms, and conducting a wide range of scientific activities that cannot be _____ (Answer: accomplished) by robotic exploration.

A Harvard economist's idea — giving free cell phone air time to high-performing students as an _____ (Answer: incentive) to continue doing well — is now in effect. Schools Chancellor Joel I. Klein today started the Million Motivation Campaign, an experimental program involving about 2,500 students in seven middle schools. The students will each receive a free cell phone, called the "Million," with _____ (Answer: opportunities) to earn minutes and other rewards if they achieve academic goals set by their principals. Teachers and _____ (Answer: administrators) will also be able to use the cell phones to communicate with the students.

Part of the idea, according to the Education Department, is "to re-brand achievement through a messaging campaign and _____ (Answer: mentoring) program." The students will receive cell phone messages "promoting the idea that a middle-class lifestyle is _____ (Answer: desirable) and accessible with a good education" and highlighting the accomplishments of _____ (Answer: professionals) in various occupations; participants will also have opportunities to get work experiences, life _____ (Answer: coaching) and academic help through the mentoring program.

Coca-Cola has bucked the trend for celebrity-fronted advertising by choosing a _____ (Answer: virtually) unknown British artist to front one of its biggest UK campaigns. While arch-rival Pepsi features the likes of David Beckham and Beyonce Knowles in its campaigns, Coca-Cola has hired the Basement Jaxx vocalist Sharlene Hector to star in its first ever UK branding campaign for Coca-Cola Classic. The _____ (Answer: advert) breaks tomorrow and features Hector singing the Nina Simone Classic I Wish as she walks through the streets distributing bottles of Coca-Cola. It is the latest in the company's new "Real" _____ (Answer: campaign), which took over from the "Always Coca-Cola" adverts and is aimed at giving the brand a more irreverent image — the actress Penelope Cruz has _____ (Answer: appeared) belching after drinking Coke in adverts in the US. The new advertising is the first campaign to be created by the quirky British advertising agency Mother, which won the Coca-Cola business last year after _____ (Answer: pitching) against the company's pitching US agency, McCann-Erickson. The agency had already created campaign for Coca-Cola owned _____ (Answer: created) Lilt, Oasis and Schweppes, and was charged with coming up with a specifically British _____ (Answer: approach) to the world's best-known brand. The _____ (Answer: strategy) is part of the Coca-Cola chairman and chief executive Douglas Daft's so-called "Think local, act local" _____ (Answer: philosophy), inspired by the realization that what works for American philosophy will not necessarily succeed elsewhere.

There is such a thing as information _____ (Answer: overload). There is just so much information out there now that we can't _____ (Answer: cope) with it or fully absorb it, or even decide which bits of it we want to keep in our minds, or which to _____ (Answer: discard). There is a similar thing going on with the range of choices we have as _____ (Answer: consumers). There is so much stuff out there, so much to choose from, that, according to some experts, this situation is making us _____ (Answer: miserable). Most of us believe that the more we have to choose from the better, yet apparently our dissatisfaction with this wealth of choice, or rather the anxiety it produces, is part of a larger _____ (Answer: tract). It seems that, as society grows more _____ (Answer: affluent) and people become freer to do what they want, the unhappier they become.

Paper was first manufactured in Europe by the Spanish in the 12th century, although it had been _____ (Answer: imported) since the 10th century. Around the year 1276, a _____ (Answer: mill) was established at Fabriano in Italy. The town became a major center for paper making and throughout the 14th century _____ (Answer: provided) most of Europe with fine quality paper, which it has continued to produce ever since. By the 15th century, paper was also being manufactured in Germany and France, and it was not long before both countries became almost completely independent of material bought overseas. With the increasing _____

(Answer: availability) of paper in Europe, the _____ (Answer: production) of identical printed pictures became almost inevitable.

We hope to have something meaningful to say in our next book about the efficacy of advertising. This is a huge question that _____ (Answer: impacts) everything from commerce to politics to journalism. But for now, let me give one example. My kids were recently watching a Yankees-Red Sox Day game on TV, broadcast on the YES network. One of the commercials was an anti-smoking ad — placed, I believe, by the City of New York. It was a gritty, documentary-style spot, _____ (Answer: featuring) a surgeon talking to the camera, then showing the patient he was about to operate on. The patient was a man whose toes were blackened and _____ (Answer: rotting) away. The image of the foot was extremely _____ (Answer: disgusting). "It's gangrene," the surgeon said, and then he drew on the man's leg with a marker to show where he was about to take his _____ (Answer: hacksaw) and cut off the leg. The ad made a huge impression on my five-year-old daughter. Hours later, she asked out of the blue, "Are you still thinking about that boy's foot?" She couldn't eat dinner that night since she was still thinking about the disgusting image. She is definitely more _____ (Answer: scared) of seeing that foot again than she is of seeing the Wicked Witch of the West again. We talked about it for quite a while; I explained that _____ (Answer: smoking) is bad for you, even though in the old days people actually thought smoking was good for you, and now the _____ (Answer: message) they're sending is that nobody should smoke. Will this ad work? Will it cause a young person who sees it to never smoke cigarettes? Also, is this kind of imagery _____ (Answer: appropriate) for broadcast during a program — a daytime baseball game — that young kids will be watching?

A lot of people just don't feel quite human without that morning cup of coffee. Now a study finds that the enhanced sense of well-being that caffeine can cause is _____ (Answer: reflected) in our perception of words. Specifically, caffeine increases the ability to recognize words associated with positive thoughts, but doesn't provide the same _____ (Answer: boost) for words with negative or even neutral associations. The research is in the journal PLoS One. Scientists assigned 66 subjects to one of two groups. Half got a 200-milligram caffeine tablet, a dose equal to almost three cups of coffee. The other half received a sugar tablet. Thirty minutes later the volunteers were shown strings of letters, and had to decide as fast as they could if a string formed a word or was just gibberish. The volunteers recognized words with positive associations much faster than either negative or neutral words. Other studies have shown that positive words tend to be recognized more quickly, but the caffeine increases the _____ (Answer: gap). So next time you wake up with a grumpy sweetheart, your _____ (Answer: compliments) might be appreciated more if they have a cup of coffee first.

Most patients with Type 2 diabetes should start taking statins, the cholesterol-fighting drugs, as a _____ (Answer: preventative) measure against heart disease, whether or not they have high cholesterol levels, according to new guidelines released yesterday. The recommendations, from the American College of Physicians, call for moderate doses of statins by people with diabetes who are older than 55, and for younger _____ (Answer: patients) who have any other risk factor for heart disease, like high blood pressure or a history of _____ (Answer: smoking). The new guidelines are outlined in April 20 issue of The Annals of Internal Medicine, in an article

that noted that about 16 million Americans have Type 2 diabetes and that 800,000 new cases are _____ (Answer: diagnosed) every year. The lead author of an article accompanying the guidelines, Dr. Sandeep Vijan of the University of Michigan, said that "almost everyone with Type 2 diabetes should be on a statin." The _____ (Answer: average) age at diagnosis is 48, and even many patients under 55 have high blood pressure as well as diabetes, he said. Traditionally, diabetes treatment has _____ (Answer: focused) on regulating blood sugar levels by careful control of _____ (Answer: diet) or through insulin injections. But researchers have come to understand that control sugar really protects only against the destruction of small blood _____ (Answer: vessels) , which can lead to blindness or loss of fingers, toes or limbs. Heart disease is, in fact, the more serious threat. Up to 80 percent of diabetes patients will develop heart problems or die of them, the article said. And Dr. Vijan emphasized that controlling hypertension remained the highest priority. He ranked control of lipids, the fats in the blood _____ (Answer: stream) that can affect coronary health, second, ahead of glucose _____ (Answer: regulation).

The way I look back in the past is by using the fossilized remains of deep-water corals. You can see an image of one of these corals behind me. It was collected from close to Antarctic, thousands of meters below the sea, so, very different than the kinds of corals you may have been _____ (Answer: lucky) enough to see if you've had a tropical holiday. So, I'm hoping that this talk will give you a four-dimensional view of the _____ (Answer: ocean). Two dimensions, such as this beautiful two-dimensional image of the sea surface _____ (Answer: temperature). This was taken using satellite, so it's got _____ (Answer: tremendous) spatial resolution. The overall features are _____ (Answer: extremely) easy to understand. The equatorial regions are warm because there's more sunlight. The polar regions are cold because there's less sunlight. And that allows big _____ (Answer: ice-caps) to build up on Antarctica and up in the Northern Hemisphere.

Spring wedding season has arrived, ushering in hefty costs for guests — and especially for members of the wedding party. But it can be hard for twenty somethings to fit _____ (Answer: extra) costs into scant budgets, especially if you have multiple weddings to attend. So be sure to determine what you are _____ (Answer: signing) up for before committing to be part of the ceremony or a guest at a destination wedding — and look for ways to _____ (Answer: trim) costs. If you are asked to be part of a ceremony, don't _____ (Answer: hesitate) to ask the bride and groom upfront for details including the event's location and other _____ (Answer: functions) they may expect you to attend. In return, be honest with them about your _____ (Answer: financial) situation. Colleen Bayus, 24, attended four weddings last year, traveling from Washington to Boston, Pittsburgh and Philadelphia a total of seven times for dress fittings, bachelorette parties and the ceremonies. "It really _____ (Answer: added) up ... I had to tell my friend in Boston that I didn't have the money to attend her bachelorette party in Manhattan," she says. If you know you can't afford to fly to a _____ (Answer: destination) wedding in the Caribbean plus a weekend bridal party in Miami, speak up from the beginning, says Susan RoAnne, a networking and _____ (Answer: etiquette) expert in San Francisco. "It's fair to say 'I love you, but I don't want to shortchange you if I can't afford to _____ (Answer: participate) in every aspect,'" she says.

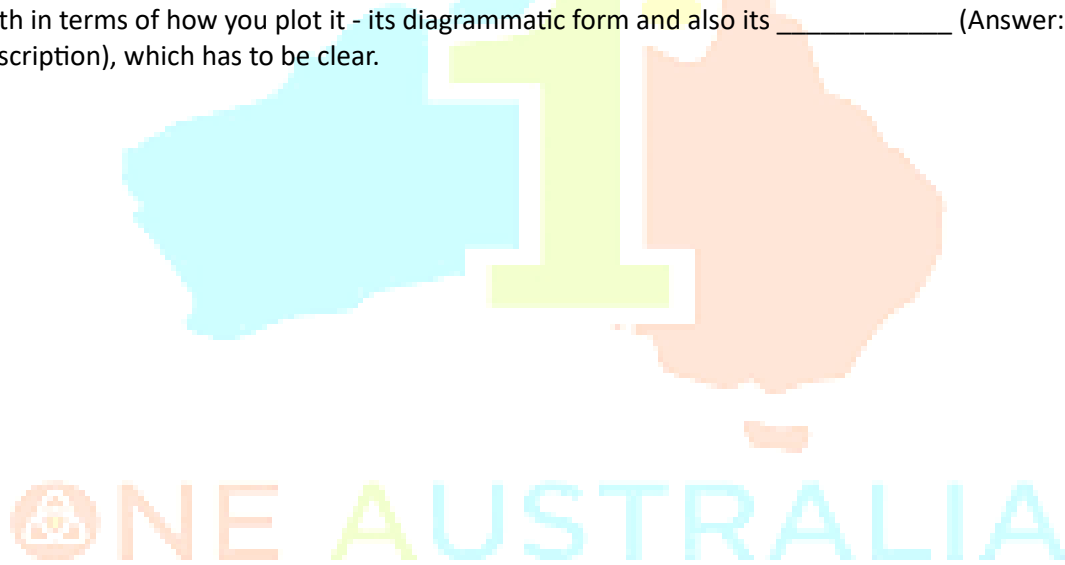
China will become the world's safest and largest _____ (Answer: investment) economy in times to come given the following factors: huge market _____ (Answer: potential), rich labor resources, comparative advantage in labor cost, sound corporate governance and _____ (Answer: stable) government and society. All these factors will further attract the inflow of foreign _____ (Answer: capital) into China. In short, China's economy will grow even faster in the future. In the next 15 years, China's economy will still increase at a rate 7%-8%. In year 2020, should price index remain the same as today, GDP will _____ (Answer: amount) to US \$4.8 trillion, GDP per capita per capita will reach US \$3,300. However, the level of GDP per capita is still very low in China at the moment, GDP per capita's growth is still at a slow rate. GDP per capita will have to be _____ (Answer: further) increased in order to raise China's standard of living so as to bridge the present income gap between the rich and the poor. Satisfaction of consumers' needs can be the main driver in raising China's living standards. Domestic _____ (Answer: demand) will increase as the economy grows. Therefore, extensive production of goods and services can further push and _____ (Answer: sustain) the economy's growth. Moreover, there are _____ (Answer: abundant) human resources in China, and labor cost in China is much lower than the other _____ (Answer: industrialized) countries. China's education system is also being fast developed, thus more people will achieve higher level of education than in the past. With _____ (Answer: comparative) advantage in cheap labor cost and increase of human capital brought about by education, future for China's economy can be only even brighter.

In years past, doctors were afraid to let heart _____ (Answer: patients) exercise. When my father had a heart attack in 1968, he was kept _____ (Answer: sedentary) for six weeks. Now, heart attack patients are in bed barely half a day before they are up and moving, Dr. Moffat said. The core of cardiac rehab is a _____ (Answer: progressive) exercise program to increase the ability of the heart to pump oxygen- and nutrient-rich blood more effectively throughout the body. The outcome is better _____ (Answer: endurance), greater ability to enjoy life and decreased mortality. The same goes for patients with congestive heart _____ (Answer: failure). "Heart failure patients as old as 91 can increase their _____ (Answer: oxygen) consumption significantly," Dr. Moffat said. Aerobic exercise lowers blood pressure in people with hypertension, and it improves peripheral _____ (Answer: circulation) in people who develop cramping leg pains when they walk — a condition called intermittent claudication. The treatment for it, in fact, is to walk a little farther each day. In people who have had transient ischemic _____ (Answer: attacks), or ministrokes, "gradually increasing exercise improves blood flow to the brain and may diminish the risk of a full-blown stroke," Dr. Moffat said. And _____ (Answer: aerobic) and strength exercises have been shown to improve endurance, walking speed and the ability to perform tasks of daily living up to six years after a stroke. As Randi knows, _____ (Answer: moderate) exercise cuts the risk of developing diabetes. And for those with _____ (Answer: diabetes), exercise improves glucose tolerance — less medication is needed to control blood sugar — and reduces the _____ (Answer: risk) of life-threatening complications.

This week we're going to be continuing our discussion of women in society. Last week we looked at a number of _____ (Answer: issues) relating to women in education. If you remember, we discussed women both at school and at university. Today we're going to be considering the _____ (Answer: roles) that women play in the workplace. Again, we'll start by taking a

historical perspective, and inevitably you'll find that many of the same _____ (Answer: events) that impacted on women in education also had a major influence on their working lives. In the second half of the lecture, I'll concentrate on the situation in _____ (Answer: Europe) today, and I'll invite you to suggest how you think things are likely to develop over the next _____ (Answer: decade). OK, so let's get started.

The assignment that I'm going to set for the holiday period is one that we've given students for a number of years. It's quite _____ (Answer: practical) and will allow you to get out and about - it's no good being shut up in your rooms all the time! It does have a written _____ (Answer: element), too. Um, basically it's a data gathering exercise and there are two choices with regard to how you _____ (Answer: collect) the data. We'll go through those in a moment. I'm also going to give you a link to an internet site that is - well it's critical that you _____ (Answer: review) this before you do anything, as it provides a lot of guidance on data presentation, both in terms of how you plot it - its diagrammatic form and also its _____ (Answer: description), which has to be clear.



WRITE FROM DICTATION

Social policy is a study of social responsiveness for the government.

Assignments must be submitted at the end of the term.

Students can find news about climate change.

The staff is cleaning the room for tomorrow morning's meeting.

Extension requirement for the assignment must be submitted before the deadline.

Some studies show the link between depression and social media.

University graduates lose time finding jobs.

Music has the ability to shape our emotions.

Open days for undergraduates occur all year round for campus visits.

The author expressed an idea that modern readers inevitably cannot accept.

Formal conclusions could be established through rigorous experiments.

Balancing coursework and a part-time job require effective time management.

Collaborative projects help students develop teamwork and problem-solving abilities.

Business majors learn valuable skills for leadership and entrepreneurship.

University clubs offer students opportunities to pursue their diverse interests.

Frequently observed attributes tend to interpret the problem in comparable manners.

Faculty members are consistently accessible and approachable for guidance and counsel.

Comprehending the intricacies of the global market is imperative for students.

To comprehend human behavior profoundly, one must scrutinize and analyse their actions.

Numerous studies confirm the Earth's temperatures are steadily increasing.

The bookstore carries all required textbooks for your school courses.

Few employment opportunities exist within this particular job sector.

Online resources now allow viewing of school lectures anytime.

Late submissions likely won't receive attention or thorough consideration.

Thorough testing procedures serve to confirm the accuracy of factual information.

Tomorrow's lesson will assess your understanding of complex material.

Instructors will grant approval for your extensive paper following thorough discussion.

Mathematics instructors are presently encountering certain challenges in their teaching roles.

Certain individuals thrive in competitive scenarios, while others favor cooperative endeavors.

Professionals have developed methods for quantifying plant growth through numerical measurements.

The concept has inherent imperfections and necessitates thorough and deliberate evaluation.

This book discusses cultural impacts on our actions significantly.

Digital systems have simplified borrowing books, making it more accessible today.

The posters are on display at the larger lecture theatre.

To ensure clarity and avoid unnecessary repetition, it's important to be concise.

The former lecturer often returns as a visitor to the campus.

The blue whale is the largest animal that ever lived.

Most essential course texts are stocked in the university's library.

There's a push for universal access to free educational services.

By collaborating, we can create statues that are both imposing and magnificent.

He wasn't the only advocate pushing for legal reforms back then.

Art depicting freshwater life didn't appear until the modern era.

A consensus on climate change exists among many esteemed scientists.

Students of accounting should grasp profit and loss statements well.

Before the refrigerator was invented, people used underground ice houses.

I truly believe it's among the best actions I've ever taken.

She has been in the library for a long time.

The president's speech drew a large crowd of interested listeners.

City planners work to make our neighbourhoods work better and grow.

Soon, a well-known conductor will lead the orchestra in concert.

Special programs let you look into what you're interested in.

We've managed to get rid of some illnesses completely.

Trees in cities help deal with too much rainwater.

Your grades come from working alone and with others on projects.

The library isn't open as long when it's summertime.

The book argues that sometimes tech does more bad than good.

We're not taking requests for more stuff right now, sorry.

Students are permitted to park at campus parking spaces.

Old tools and artifacts are found at archaeological dig sites.

Class representatives will bring forms for you to vote on things.

We're still not sure what really happened in those old stories.

The school's garden becomes a beautiful spot to relax during summertime.

Work through these math questions using what you've learned.

Crafting items individually differs greatly from mass batch production methods.

There are more postgrad students here than is usually seen.

The cooperators use ongoing assessments as their ways of checking work.

Modern diets often contain excessive sugar, overwhelming our bodies' capabilities.

Art represents the expression of creativity and ideas in tangible forms.

Undergraduates explore specialized topics within their academic program's offerings.

Undergrads need specific sources to properly analyze their programs.

Tours run year-round, peaking in May during the dry season.

The recommendations weren't supported well by the data we found.

Debate continues on whether children should participate in educational trips frequently.

We are seeing the first hopeful signs of an economic upturn.

The city's founders set down rules that have become today's laws.

The article discusses a wide array of innovative experimental approaches.

Quickly processed aerial photos allow for in-depth geographical analysis.

Political discussions can sometimes unexpectedly turn into serious and heated confrontations.

Organic foods are cultivated without any synthetic chemicals, pesticides, or fertilizers.

Figuring out if you're happy is easier than it might seem.

Doctorate papers are set up a lot like other research articles.

Artists and politicians alike start by learning the basics of politics.

Swimming exercises numerous muscles and serves as an excellent workout.

Studying old times can help us get what's happening now.

They have devised methods to represent plant growth through charts.

Schools make special classes that match what students are into.

Giving good examples can help make what you're saying stronger.

Business people sometimes split costs with each other for things.

Online classes offer flexibility to learn despite a hectic personal schedule.

Sentencing decisions hinge on the adjudicated guilt of the accused.

The author's early work initially emphasized experimental methods over philosophical.

Students are afforded the liberty to pursue personal academic interests.

Sugar, a solid carbohydrate, is a staple in sweetened foods.

Choir auditions at the university are postponed until next week.

Merely relying on innate talent is insufficient for scientific success.

The English program's third year is recognized for its merit.

Geography courses often consider field trips as indispensable learning experiences.

Honey serves both as a nutritious food and a medicinal product.

Even as infants, humans can discern language from other sounds.

Farms must modify practices to cope with changing climatic conditions.

Medicine offers a broad spectrum of career possibilities upon graduation.

Historians are intrigued by the year a shipwreck was discovered.

The castle's grand design aimed to deter locals and adversaries alike.

Books from this collection are loanable for a one-week period.

Being bilingual doesn't equate to the ability to dissect language.

Expectations are set for improved performance figures in coming years.

Team practices occur on weekdays with games scheduled for weekends.

Astronauts measure vast space distances in units called light years.

Specialist knowledge isn't necessary to comprehend the contents of this book.

The research yielded some results that were not anticipated initially.

Salt is sourced either from evaporated seawater or mined directly.

Sound cannot travel in a vacuum where no air exists.

Body fat functions as an insulator for our internal organs.

A fire drill necessitates evacuation from buildings for everyone's safety.

Research shows Hong Kong residents are exceptionally active compared to others.

Some thinkers may be recognized as history's most influential scientists.

An internal organ's role includes maintaining the body's core temperature.

Your estate agent receives a commission for each house sold.

Complete equality within our society remains unrealized to this day.

Collaborate with your peers to foster teamwork and a cooperative spirit.

He is well-qualified to guide groups on mountain expeditions safely.

The integrated course combines various elements into a cohesive program.

Some historical events' occurrence is questioned due to scant evidence.

Medical studies branch out into numerous specialties and research areas.

Globally, governments are structured and operate in various distinct forms.
Comprehensive theory and practical training are necessities in medical specializations.
The project's goal was to examine standard cases rather than exceptions.
Specialized vocabulary with unique meanings within fields is termed jargon.
Solar energy's untapped potential for use holds incredibly vast possibilities.
This university's archaeology school is known worldwide for its excellence.
The thief habitually broke into several different homes each day.
The composition showcases a reserved style in its musical theme.
The nation's wealth grew by trading through its open harbors.
The gathered data was effectively transformed into an understandable argument.
The amount of advertising aimed at children sparks widespread debate.
The gallery's leadership expressed warm gratitude to the unknown donor.
A new collection of articles has just been published.
Calculators allow us to add numbers without making mistakes.
The disease that was serious has now been eradicated.
There is no fixed career path for a qualified journalist.
An effective business manager is always open to new ideas.
Your ideas are sophisticated in seminars and tutorials.
Linguistics is the scientific study and analysis of language.
Exotic activities can help students develop more talents.
The commissioner will apportion the funds among all the sovereignties.
You will be tested via continuous assessment and examinations.
Please return the reference book to the correct position on the shelf.
Extracurricular activities can help students to develop more talents.
Audition of the university choir will be on hold until the next week.
The farmers need to adapt to the changes of the climate.
The digital camera has some advantages over traditional film.
The department works closely with its partners in the business community.
The orchestra will be led by a visiting conductor.
Relying on natural ability will not get you far on science.
A visit to the designed museum is of great value.
There will be a chemistry test in the class next week.

Physical health can be improved by regular training.

Honey can be used as food and health product.

Renovation work is currently being undertaken throughout the whole building.

The course involves a combination of pure and applied mathematics.

New developments in manufacturing are constantly changing the way we live.

Designers need to keep up with social trends.

Academic libraries across the world are steadily incorporating social media.

This advanced course requires a basic knowledge of economic theory.

Trees benefit the city by soaking up the rainwater that runs off its road.

We should never underestimate the power of creative design.

Marine environment has been destroyed by pollution and unsustainable development.

The year when the ship of artifacts was wrecked interested historians.

Our study program equips students with essential skills for university.

Americans have progressively defined the process of plant growth and reproductive development in quantitative terms.

Speed is defined as how quickly an object or a person moves.

Artists need to make their works both original and accessible.

Plants are able to continue growing throughout their lives.

You must hand in your essays by midday on Friday.

Tribes vied with each other to build up monolithic statues.

The castle was designed to intimidate both local people and the enemies.

Sugar is a compound which consists of carbon, oxygen, and hydrogen.

You need to put these books on the table over there.

Being bilingual does not mean having the ability to analyze the language.

A series of the observations were carried out in the classroom.

Food has become a political issue in the world.

Too much information may be avoided by good research design.

The university has invested in the new technology designed for learning.

The area has a number of underwater habitats and species.

Late applications are not accepted under any circumstances.

Students should leave their bags on the tables by the door.

The collapse of the housing market has triggered recessions throughout the world.

Momentum is defined as the combination of mass and velocity.

The north campus car park could be closed on Sunday.

Graphs are often useful for geographical research.

Animal and plant cells have a number of structures in common.

Firm conclusions can be established through rigorous experiments.

The library will be closed for staff training tomorrow morning.

The reception staff can give information of lending and printing.

Your ideas have been discussed and debated in seminars and tutorials.

The bus to London will leave ten minutes later than expected.

We need to answer security questions if we want to reset the password.

Salt is produced from the seawater or extracted from the ground.

They developed a unique approach to training their employees.

I thought it was thrown in a small meeting room.

Resources and materials are on hold at the library reference desk.

Astronauts are using light years to measure the distance in space.

Listening is the key to succeeding in this course.

Human beings compete with other living things for resources and space.

Strong liner is used to measure distance and baseline.

Everyone must evacuate the premises during the fire drill.

Many vocational courses in the institution are funded by private enterprises.

A laptop has been found at the biology lab.

The opening hours of the library are reduced during summer.

The reception staff can give advice about renting private accommodation.

A group meeting will be held tomorrow in the library conference room.

Universities should invest in new technologies designed for learning.

Tutors should set a clear goal at the start of the class.

Time and distance are used to calculate speed.

This island marks the southernmost point of the large bay.

The history of the movement has been documented by authors.

The due date for the initial assignment is September fourteenth.

The final academic year includes coursework and a major project.

Renovations are planned for the dining hall this autumn break.

The designers have plans to finalize the project by today.

Updates to the course reflect recent changes in the field.

There's an ongoing effort to enhance the company's public image.

Students enjoy special discounts at the coffee house all week.

Near the entrance, you will find the building dedicated to chemistry.

This camera has the technology to detect and focus on eyes.

