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Vocabulary Builder Reference from...

Federica Bianco: How we use astrophysics to study earthbound problems | TED Talk https://www.ted.com/talks/federica_bianco_how_we_use_astrophysics_to_study_earthbound_problems



All Words

IMPORTANT

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Session 1: Word List

astrophysics

- n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
- (1) **astrophysics** research, (2) neutrino **astrophysics**He was studying **astrophysics** in an attempt to understand the origins of the universe.

stellar

 adj. excellent; relating to or resembling a star, especially in quality or attractiveness

synonym: starry, celestial, astral

(1) **stellar** performance, (2) a **stellar** system

She received a **stellar** review from her boss, which boosted her confidence.

explosion

 a violent release induced by a chemical or nuclear reaction

synonym: burst, eruption, outbreak

(1) a lot of explosions,(2) site of the explosionA broken gas pipe triggered the explosion.

universe

 everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of

matter and energy

synonym: cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe** The **universe** is about 13.8 billion years old.

flaw

 a fault, mistake, or weakness that causes something not to be perfect

synonym: defect, fault, imperfection

(1) a minor **flaw**, (2) the **flaw** in the legislation

Even the slightest design **flaw** in an aircraft can lead to a fatal accident.

restless

 adj. unwilling or unable to stay still or relax because you are worried and uneasy

synonym: agitated, anxious, disturbed

(1) a **restless** person, (2) **restless** waves

He felt **restless** and constantly changed his postures.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

(1) incredible amount, (2) at incredible speed

Her response revealed incredible idiocy.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

cage

 a structure made of metal bars or wire in which birds or animals can be kept

synonym: enclosure, jail, corral

(1) an insect cage, (2) a bird in a cage

The trapped bear is running amok in its **cage**.

asset

n. something or someone that is useful or valuable quality, skill, etc.; valuable property

synonym: aid, resource, equity

(1) frozen **assets**, (2) liquid **assets** of the company A sense of humor is an invaluable **asset** in this job.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity The old building **exploded** in a fiery inferno.

lab

 a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

(1) lab instrument, (2) medical lab

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

bang

 to hit or cause to hit something in a way that makes a loud noise

synonym: crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down My father tried to **bang** mathematics into my head since childhood.

origin

- n. the first existence or beginning of something synonym: root, source, ancestor
- (1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the origin of life.

evolution

- a gradual process of transformation of living things synonym: elaboration, expansion, transition
- (1) human evolution, (2) evolution theory They study the **evolution** of the universe.

galaxy

- an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity synonym: star cluster, nebula, star system
- (1) elliptic galaxy, (2) a galaxy of famous actors The Milky Way **galaxy** has numerous water-bearing planets.

structure

- the way of construction of something and the n. arrangement of its parts, or a complex thing constructed of many parts
- synonym: construction, architecture, establishment
- (1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

complexity

- the state or quality of being complicated or intricate and difficult to understand
- synonym: intricacy, sophistication, elaboration
- (1) cognitive **complexity**, (2) **complexity** theory The project's **complexity** made it difficult for the team to complete it on time.

extract

a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief extract from the book, (2) botanical extract Anesthetize the gum before **extracting** the teeth.

adj. relating to or located in a town or city urban synonym: metropolitan, civic

(1) **urban** planning, (2) **urban** property owners
Only a small number of **urban** utilities offer sanitation services.

observatory

- *n*. a building designed and equipped to observe the planets, the stars, the weather, etc.
- (1) space **observatory**, (2) a meteorological **observatory** That astronomical **observatory** stands at the top of the mountain.

astronomical

 adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

synonym: huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers The cost of the new equipment was **astronomical** and beyond the company's budget.

insight

 n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**We gained various **insights** by analyzing the vast amount of data owned by the company.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive It's notoriously challenging to **predict** birth rates.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym: robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

grid

 a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

synonym: gridiron, battery grid, power system

(1) a grid design, (2) a wire grid

Grid pattern roads often appear in urban areas.

environment

 the natural world such as air, water, and land in which humans, animals, and plants live

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**Every human is responsible for taking care of the Earth's **environment**

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts I was able to **capture** the moment on film.

plume

 a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat

synonym: feather, honor, token

(1) **plume** of smoke, (2) **plume** of feathers The bird had a beautiful **plume** on its head.

pollution

 the introduction of harmful substances or waste into the natural environment that causes adverse change

synonym: corrosion, deterioration, corruption

(1) environmental **pollution**, (2) high levels of air **pollution**The **pollution** is endangering the local plants and animals.

greenhouse

- n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in synonym: conservatory
- (1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully They used a special receiver to **monitor** police radio channels.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

neural

adj. of or relating to a nerve or the nervous system that includes the brain

synonym: sensory, neuronic, nervous

- (1) **neural** stem cells, (2) **neural** networks in Al
- There was a disturbance of **neural** function.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders The security camera has **detected** four intruders.

skyline

n. the outline of buildings and other structures against the sky, especially when viewed from a distancesynonym: silhouette, cityscape, horizon

(1) **skyline** view, (2) downtown **skyline**

The **skyline** of the city was dotted with tall buildings.

harmless

adj. not able or not likely to cause damage or harm synonym: benign, innocuous, inoffensive

(1) **harmless** in most people, (2) **harmless** substances Most people thought of him as a **harmless** eccentric.

evanescent

adj. fleeting or temporary; tending to fade or disappear quickly; of or relating to anything that has a short-lived existence or duration

synonym: fleeting, disappearing, transitory

(1) **evanescent** dream, (2) **evanescent** nature of fame
The beauty of the sunset was **evanescent** as it disappeared quickly behind the mountains.

pollute

 to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals

synonym: contaminate, corrupt, degrade

(1) **pollute** the air, (2) **pollute** the thread We should do our best not to **pollute** the environment.

smokestack

 a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air

synonym: chimney, stack, flue

(1) **smokestack** emissions, (2) industrial **smokestack**The **smokestack** on top of the factory released thick clouds of pollution into the air.

persistent

 adj. continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

synonym: tenacious, steadfast, unrelenting

(1) persistent cough, (2) persistent data

Despite the setbacks, he remained **persistent** in his pursuit of his dreams.

policy

n. a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective

synonym: strategy, plan, guideline

(1) health **policy**, (2) foreign **policy**

The company's new **policy** on remote work has made it a more inclusive workplace.

disciplinary

- adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic studysynonym: corrective, punitive, instructive
- (1) **disciplinary** action, (2) take **disciplinary** measures The school's **disciplinary** committee met to discuss the student's behavior.

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to analyze the root cause of our

mistake.

methodology

 a set of ways or principles of doing, teaching, or studying something

synonym: procedure, approach, process

(1) **methodology** for optimizing, (2) research **methodology** We are developing a new **methodology** for assessing marketing measures.

district

a part of a country or town, especially one with particular features

synonym: territory, dominion, zone

(1) school **districts**, (2) urban **districts**

Since 2001, the **district** has provided training programs for automotive technicians.

prosecutor

 a lawyer or official who conducts legal proceedings against someone accused of a crime; a person who brings a criminal case to court on behalf of the state or government

synonym: district attorney, state attorney

(1) a public **prosecutor**, (2) deputy **prosecutor**The **prosecutor's** opening statement set the tone for the entire trial.

delay

v. to cause something to happen at a later time than originally intended or expected

synonym: block, adjourn, detain

(1) **delay** a flight three hours, (2) **delay** the new project We **delayed** the payment because of an incorrect invoice.

jurisdiction

n. the extent or range of authority, power, or control exercised by a particular entity or organization, such as a government or court; the area within which such authority or control is exercised

synonym: power, authority, control

(1) local jurisdiction, (2) limited jurisdiction

The case fell under the **jurisdiction** of the state court system.

probation

n. a period of time during which an offender is released from imprisonment on the condition that they adhere to particular rules and is supervised by an officer; a time of training and testing the character or abilities of a person who is new to a role or job

synonym: parole, supervision, conditional release

- (1) **probation** period, (2) juvenile **probation** official He was sentenced to two years of **probation** for his crime.
- a facility where criminals are kept to be punished for their crimes; a prison

synonym: prison, slammer, penitentiary

(1) county jail, (2) be in jail

The police escorted the prisoner to the jail.

drag

jail

v. to pull or haul with force

synonym: haul, pull, draw

(1) drag a chair over, (2) drag a team down

He dragged the heavy suitcase behind him as he walked.

massive

adj. enormous amount; very heavy and solid synonym: enormous, giant, immense

(1) massive amounts, (2) massive stars

The recent economic downturn has resulted in **massive** layoffs.

explore

 to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

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instrument

 an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**This electronic **instrument** is required to undergo periodic inspections to ensure precision.

colleague

 one of a group of a coworker, especially in a profession or a business

synonym: coworker, associate, fellow

(1) collaborate with colleagues,(2) former colleagueI decided to seek counseling on the advice of my colleague.

visual

adj. relating to seeing or sightsynonym: optical, graphical, visible

visual navigation, (2) field of visual arts
 The building makes a remarkable visual impact.

dashboard

 a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview

synonym: control panel

(1) auto **dashboard**, (2) business **dashboard**He noticed that the oil warning light on the **dashboard** of his car had turned on.

prosecution

n. the act of bringing legal charges against someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial

synonym: trial, lawsuit, legal action

(1) criminal **prosecution**, (2) wrongful **prosecution**The judge denied the motion to dismiss the **prosecution's** case.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**The **process** for applying for a visa can be lengthy and complicated.

duration

- n. the length of time something lasts or continuessynonym: period, span, course
- the duration of insurance, (2) short duration
 military incarcerated him for the duration of the war.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym: endure, undergo, tolerate

move around.

suffer a setback, (2) suffer bad grades
 The older man suffers from arthritis and finds it difficult to

inequality

 the unfairness of a society in which some people have more opportunity, money, etc. than others; (mathematics) relation between two values when they are different

synonym: imbalance, prejudice, unfairness

(1) **inequality** in salary, (2) algebraic **inequality**There are several causes of economic **inequality** within societies.

bias

 a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment

synonym: inclination, partiality, predilection

(1) **bias** against a big company, (2) have a **bias** toward socialism

She researched gender bias in politics.

collaboration

n. the act or situation of working together to create or produce something

synonym: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

domain

 a specific sphere of influence or control; a specific field of knowledge or expertise

synonym: territory, realm, sphere

(1) domain of use, (2) a dependent domain

The company's **domain** in the market was expanding to new territories

improve

- v. to make or become better
- synonym: enhance, ameliorate, enrich
- (1) **improve** a process, (2) **improve** the test score We want to **improve** ties between our two countries.

background

 n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**The company's hiring criteria emphasize personality, not a person's **background**.

echo

 a sound heard after being reflected off a surface, such as a wall or a cliff

synonym: reverberate, repeat, reflection

(1) the **echo** of a person's footsteps, (2) sound **echo** A thunderous boom **echoed** throughout the valley.

interstellar

adj. relating to or located in the space between starssynonym: galactic, cosmic, intergalactic

(1) **interstellar** communication, (2) **interstellar** space The **interstellar** medium comprises gas, dust, and cosmic rays that fill the space between stars.

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed I advised him to **adapt** to his new surroundings.

excite

- v. to make someone feel suddenly enthusiastic or eager synonym: thrill, exhilarate, animate
- (1) **excite** the crowd, (2) **excite** rebellion The news of her promotion **excited** her.

perspective

a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

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(1) a **perspective** view, (2) the **perspective** of the battle His father's death changed his whole **perspective** on life.

unexpected

adj. not anticipated or regarded as likely to happen *synonym*: surprising, unanticipated, incredible

(1) an **unexpected** visitor, (2) some **unexpected** events

The **unexpected** rainstorm caused the collapse of the corral.

Session 2: Spelling

| particular style of thinking about something 7. intlar communication adj. relating to or located in the space between stars | 1. | short duon | n. | the length of time something lasts or continues |
|--|----|---------------------------|------|--|
| research; a laboratory 4. b_s against a big company n. a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment 5. disary action adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study 6. the perve of the battle n. a confident attitude toward something; a particular style of thinking about something 7. intlar communication adj. relating to or located in the space between stars 8. criminal proon n. the act of bringing legal charges against someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial 9. f_t accomplishment n. a notable or impressive achievement, especially one that requires great skill | 2. | exe in anger | ν. | noisily; to cause something to burst or |
| one group of people, an idea, or thing, often not based on fair judgment 5. disary action adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study 6. the perve of the battle n. a confident attitude toward something; a particular style of thinking about something 7. intlar communication adj. relating to or located in the space between stars 8. criminal proon n. the act of bringing legal charges against someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial 9. ft accomplishment n. a notable or impressive achievement, especially one that requires great skill | 3. | medical I_b | n. | • |
| people who break the rules; of or relating to a specific field of academic study 6. the perve of the battle n. a confident attitude toward something; a particular style of thinking about something 7. intlar communication adj. relating to or located in the space between stars 8. criminal proon n. the act of bringing legal charges against someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial 9. ft accomplishment n. a notable or impressive achievement, especially one that requires great skill | 4. | b_s against a big company | n. | one group of people, an idea, or thing, |
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| between stars 8. criminal proon n. the act of bringing legal charges against someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial 9. f_t accomplishment n. a notable or impressive achievement, especially one that requires great skill | 6. | the perve of the battle | n. | |
| someone for a crime they are accused of committing; the legal team responsible for presenting the case against the defendant in a criminal trial 9. f_t accomplishment n. a notable or impressive achievement, especially one that requires great skill | 7. | intlar communication | adj. | · |
| especially one that requires great skill | 8. | criminal proon | n. | of committing; the legal team responsible for presenting the case |
| | 9. | f_t accomplishment | n. | especially one that requires great skill |

ANSWERS: 1. duration, 2. explode, 3. lab, 4. bias, 5. disciplinary, 6. perspective, 7. interstellar, 8. prosecution, 9. feat

| 10. | orn of information | n. | the first existence or beginning of something |
|-----|--------------------------|------------|--|
| 11. | prt the future | ν. | to state beforehand that something will happen in the future, mainly based on knowledge or experience |
| 12. | hass substances | adj. | not able or not likely to cause damage or harm |
| 13. | cae customers' hearts | <i>v</i> . | to catch a person or an animal and confine them in an area which they cannot escape |
| 14. | emissions of grese gases | n. | a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in |
| 15. | exe our options | <i>v</i> . | to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it |
| 16. | intlar space | adj. | relating to or located in the space between stars |
| 17. | trrm an education system | <i>v</i> . | to change in outward structure or looks; |
| 18. | a wire gd | n. | a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region |
| 19. | opne occasion | adj. | suitable or happening at a time that is suitable or convenient for a particular purpose |
| 20. | ur_n planning | adj. | relating to or located in a town or city |
| | | | |

ANSWERS: 10. origin, 11. predict, 12. harmless, 13. capture, 14. greenhouse, 15. explore, 16. interstellar, 17. transform, 18. grid, 19. opportune, 20. urban

ANSWERS: 21. neural, 22. insight, 23. incredible, 24. transform, 25. jurisdiction, 26. astronomical, 27. echo, 28. observatory, 29. jurisdiction, 30. consume

ANSWERS: 31. restless, 32. mathematics, 33. environment, 34. galaxy, 35. extract, 36. astrophysics, 37. smokestack, 38. district, 39. astronomical

ANSWERS: 40. explode, 41. feat, 42. capture, 43. background, 44. asset, 45. visual, 46. prosecution, 47. origin, 48. unexpected, 49. predict

| 59. | collaborate with coues | n. | one of a group of a coworker, especially in a profession or a business |
|-----|------------------------------|------------|---|
| 60. | a minor fw | n. | a fault, mistake, or weakness that causes something not to be perfect |
| 61. | I_b instrument | n. | a workplace for the conduct of scientific research; a laboratory |
| 62. | space obsry | n. | a building designed and equipped to observe the planets, the stars, the weather, etc. |
| 63. | deputy proor | n. | a lawyer or official who conducts legal proceedings against someone accused of a crime; a person who brings a criminal case to court on behalf of the state or government |
| 64. | det smuggling across borders | v. | to find or recognize something, especially something difficult to see, hear, etc. |
| 65. | inct with one another | <i>v</i> . | to communicate or react with somebody |
| 66. | site of the exon | n. | a violent release induced by a chemical or nuclear reaction |
| 67. | high levels of air poon | n. | the introduction of harmful substances or waste into the natural environment that causes adverse change |
| 68. | inct directly with customers | <i>v</i> . | to communicate or react with somebody |
| 69. | ime a process | <i>v</i> . | to make or become better |
| 70. | the f_w in the legislation | n. | a fault, mistake, or weakness that causes something not to be perfect |

ANSWERS: 59. colleague, 60. flaw, 61. lab, 62. observatory, 63. prosecutor, 64. detect, 65. interact, 66. explosion, 67. pollution, 68. interact, 69. improve, 70. flaw

ANSWERS: 71. consume, 72. policy, 73. universe, 74. disciplinary, 75. bang, 76. astrophysics, 77. resilient, 78. neural, 79. jail

ANSWERS: 80. inequality, 81. probation, 82. colleague, 83. greenhouse, 84. prosecutor, 85. explosion, 86. delay, 87. analyze, 88. incredible

ANSWERS: 89. visual, 90. district, 91. collaboration, 92. skyline, 93. collaboration, 94. background, 95. excite, 96. jail, 97. analyze, 98. insight, 99. restless, 100. opportune

purpose

adj. unwilling or unable to stay still or relax because you are worried and uneasy

adj. suitable or happening at a time that is

suitable or convenient for a particular

99. re___ss waves

100. an op____ne remark

| 101. a str system | adj. | excellent; relating to or resembling a star, especially in quality or attractiveness |
|-------------------------------|------|---|
| 102. business dard | n. | a control panel set within the central console of a vehicle or small aircraft; a diagram that depicts critical information, typically one that provides a business overview |
| 103. musical insnts | n. | an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work |
| 104. an insect ce | n. | a structure made of metal bars or wire in which birds or animals can be kept |
| 105. adt as needed | v. | to make fit for or change to suit a new purpose or environment |
| 106. theory of the unse | n. | everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy |
| 107. exe the crowd | v. | to make someone feel suddenly enthusiastic or eager |
| 108. a bird in a ce | n. | a structure made of metal bars or wire in which birds or animals can be kept |
| 109. dey a flight three hours | ν. | to cause something to happen at a later time than originally intended or expected |
| 110. rent population | adj. | able to withstand or recover quickly from difficult conditions |

ANSWERS: 101. stellar, 102. dashboard, 103. instrument, 104. cage, 105. adapt, 106. universe, 107. excite, 108. cage, 109. delay, 110. resilient

ANSWERS: 111. dashboard, 112. drag, 113. massive, 114. policy, 115. domain, 116. plume, 117. environment, 118. methodology, 119. evolution, 120. pollution

or waste into the natural environment

that causes adverse change

| 121. don of use | n. | a specific sphere of influence or control; a specific field of knowledge or expertise |
|-----------------------------------|------|--|
| 122. ime the test score | v. | to make or become better |
| 123. frozen asts | n. | something or someone that is useful or valuable quality, skill, etc.; valuable property |
| 124. evant dream | adj. | fleeting or temporary; tending to fade or disappear quickly; of or relating to anything that has a short-lived existence or duration |
| 125. sur bad grades | v. | to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant |
| 126. adt fully to the environment | v. | to make fit for or change to suit a new purpose or environment |
| 127. cognitive comty | n. | the state or quality of being complicated or intricate and difficult to understand |
| 128. research metgy | n. | a set of ways or principles of doing, teaching, or studying something |
| 129. sur a setback | v. | to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant |
| 130. smock emissions | n. | a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air |
| 131. botanical ext | n. | a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force |

ANSWERS: 121. domain, 122. improve, 123. asset, 124. evanescent, 125. suffer, 126. adapt, 127. complexity, 128. methodology, 129. suffer, 130. smokestack, 131. extract

ANSWERS: 132. detect, 133. evanescent, 134. galaxy, 135. bias, 136. process, 137. bang, 138. urban, 139. structure, 140. complexity

| 141. mor an exam | v. | to observe, check, and track the progress or quality of something over a period of time |
|-------------------------------------|------|--|
| 142. poe the air | v. | to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals |
| 143. hass in most people | adj. | not able or not likely to cause damage or harm |
| 144. mor the data carefully | v. | to observe, check, and track the progress or quality of something over a period of time |
| 145. ske view | n. | the outline of buildings and other structures against the sky, especially when viewed from a distance |
| 146. a gd design | n. | a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region |
| 147. the eo of a person's footsteps | n. | a sound heard after being reflected off a surface, such as a wall or a cliff |
| 148. the duon of insurance | n. | the length of time something lasts or continues |
| 149. prs improvement | n. | a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it |

ANSWERS: 141. monitor, 142. pollute, 143. harmless, 144. monitor, 145. skyline, 146. grid, 147. echo, 148. duration, 149. process

suitable for consumption or use in other

dairy products

| 150. exe the world | ν. | to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it |
|----------------------|------------|---|
| 151. pernt cough | adj. | continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time |
| 152. str performance | adj. | excellent; relating to or resembling a star, especially in quality or attractiveness |
| 153. pernt data | adj. | continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time |
| 154. ple of smoke | n. | a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat |
| 155. poe the thread | <i>v</i> . | to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals |
| 156. human evon | n. | a gradual process of transformation of living things |

ANSWERS: 150. explore, 151. persistent, 152. stellar, 153. persistent, 154. plume, 155. pollute, 156. evolution

Session 3: Fill in the Blanks

| 1. | The news of her promotion her. |
|------------|--|
| <i>v</i> . | to make someone feel suddenly enthusiastic or eager |
| 2. | I advised him to to his new surroundings. |
| <i>v</i> . | to make fit for or change to suit a new purpose or environment |
| 3. | We should do our best not to the environment. |
| <i>v</i> . | to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals |
| 4. | The on top of the factory released thick clouds of pollution into the air. |
| n. | a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air |
| 5. | The rainstorm caused the collapse of the corral. |
| adj | not anticipated or regarded as likely to happen |
| 6. | The recent economic downturn has resulted in layoffs. |
| adj | enormous amount; very heavy and solid |
| 7. | Most people thought of him as a eccentric. |
| adj | not able or not likely to cause damage or harm |
| 8. | He was sentenced to two years of for his crime. |
| n. | a period of time during which an offender is released from imprisonment on the condition that they adhere to particular rules and is supervised by an officer; a time of training and testing the character or abilities of a person who is new to a role or job |
| | |

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ANSWERS: 1. excited, 2. adapt, 3. pollute, 4. smokestack, 5. unexpected, 6.

massive, 7. harmless, 8. probation

| 49. | He was studying in an attempt to understand the origins of the universe. |
|------------|--|
| n. | the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe |
| 50. | We gained various by analyzing the vast amount of data owned by the company. |
| n. | the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like |
| 51. | The beauty of the sunset was as it disappeared quickly behind the mountains. |
| adj | fleeting or temporary; tending to fade or disappear quickly; of or relating to anything that has a short-lived existence or duration |
| 52. | She researched gender in politics. |
| n. | a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment |
| 53. | Every human is responsible for taking care of the Earth's |
| n. | the natural world such as air, water, and land in which humans, animals, and plants live |
| 54. | My father tried to mathematics into my head since childhood. |
| <i>v</i> . | to hit or cause to hit something in a way that makes a loud noise |
| 55. | His father's death changed his whole on life. |
| n. | a confident attitude toward something; a particular style of thinking about something |
| | SWERS: 49. astrophysics, 50. insights, 51. evanescent, 52. bias, 53. environment, bang, 55. perspective |

| 63. | This electronicprecision. | is required to underg | go periodic inspections to ensure |
|-----------|---|--------------------------|---|
| n. | - | | as a piano, guitar, or drum; a tool y in specialist or scientific work |
| 64. n. | There are various hypothese the first existence or begin | • | of life. |
| | Her response revealed j. unbelievable; enormous | idiocy. | |
| 66. | The cost of the new equipm budget. | ent was | and beyond the company's |
| adj | j. relating to astronomy or th large or immense in scale | • | odies and phenomena; very |
| 67. | We the payment b | ecause of an incorre | ct invoice. |
| v. | to cause something to hap expected | ppen at a later time th | an originally intended or |
| 68. | The medium space between stars. | n comprises gas, dus | t, and cosmic rays that fill the |
| adj | j. relating to or located in the | e space between star | S |
| 69. | The of the city was | s dotted with tall build | lings. |
| n. | the outline of buildings and viewed from a distance | d other structures aga | ainst the sky, especially when |
| 70. n. | A sense of humor is an inva- something or someone that property | _ | ob. e quality, skill, etc.; valuable |
| | ISWERS: 63. instrument, 64. . interstellar, 69. skyline, 70. a | | , 66. astronomical, 67. delayed, |