

Englist.me



Vocabulary Builder Reference from...

Sarah Rugheimer: The search for microscopic aliens | TED Talk

https://www.ted.com/talks/sarah_rugheimer_the_search_for_microscopic_aliens

All Words

IMPORTANT

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Session 1: Word List

alien

n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

synonym : foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

Alien species have drastically altered the ecosystem in this area.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

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.

hurdle

n. a barrier or obstacle that must be overcome

synonym : obstacle, barrier, challenge

(1) overcome **hurdles**, (2) **hurdle** race

The company faced several **hurdles** in the development of its new product.

confirm

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

synonym: affirm, verify, assure

(1) **confirm** the diagnosis, (2) **confirm** a transaction

Please write to **confirm** your reservation.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

extraterrestrial

adj. relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth

synonym: alien, outer, otherworldly

(1) **extraterrestrial** planet, (2) **extraterrestrial** intelligence

Scientists are constantly searching for signs of **extraterrestrial** life in the universe.

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

optimistic

adj. hoping or expecting that good thing will happen or something will be successful

synonym : hopeful, auspicious, cheery

(1) he is **optimistic**, (2) **optimistic** outlook

Most executives were **optimistic** about future business conditions.

radiation

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

synonym : dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

dominate

v. to have or control a lot of power and influence over somebody or something

synonym : govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak

The perspective of his right brain **dominates** his consciousness.

biosphere

n. the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms

synonym : ecosphere, ecospace, ecosystem

(1) terrestrial **biosphere**, (2) artificial **biosphere**

The balance of the **biosphere** is crucial for the survival of species.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym : give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym: air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial

atmosphere

The spaceship began to burn up as it approached the Earth's **atmosphere**.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

methane

n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel

(1) atmospheric **methane**, (2) reduce **methane** emissions

The ignition of **methane** gas in the plant killed five employees.

nit

n. the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person

(1) **nit** in the dog's fur, (2) she is a little **nit**

Careful brushing can remove **nit**.

oxide

n. a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply

something without stating it directly

synonym : hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

astronomy

n. the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

synonym : astrophysics, stargazing, cosmology

(1) **astronomy** science, (2) a branch of **astronomy**

He had a deep passion for extragalactic **astronomy** and spent hours observing the night sky.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

synonym : path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**

The rocket engine is used to put the satellite into **orbit**.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

firefly

n. a flying nocturnal insect common in warm regions with a tail that shines in the dark

(1) the glow of a **firefly**, (2) sparkle like **firefly**

In that country, there is a culture of eating live **firefly** squid.

spotlight

n. a beam of light used to illuminate a particular area or person

synonym: limelight, stage light, highlight

(1) **spotlight** effect, (2) **spotlight** moment

The singer was in the **spotlight** as she performed her hit song.

continent

n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

synonym: landmass, (adjective) chaste, (adjective) pure

(1) the inland of a **continent**, (2) **continent** urinary diversion

Flight across the **continent** was a daring adventure in its day.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

overcome

v. to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone

synonym: beat, confound, overwhelm

(1) **overcome** opponents, (2) **overcome** all difficulties

He tried to **overcome** a bad reputation and win the election.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

barrier

n. a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

synonym : border, barricade, fence

(1) cost **barrier**, (2) information **barrier**

The police placed a **barrier** across the street to halt traffic.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym : characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

biosignature

n. distinctive chemical or physical features that indicate the presence of past or current life

synonym : indicators, signs, evidence

(1) **biosignatures** detection, (2) **biosignatures** discovery

Scientists are searching for **biosignatures** on other planets that could indicate the presence of life.

tricky

adj. requiring care and skill because challenging to do or deal with

synonym : thorny, problematic, crafty

(1) **tricky** problem, (2) a **tricky** recipe to follow

We have discussed the entirety of this **tricky** problem.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym : inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology**

class.

geology

n. a science that deals with the history of the earth as recorded in rocks

synonym: earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

identify

v. to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

preliminary

adj. serving as a preparation for something more important or extensive; introductory; taking place before the main event or decision

synonym: initial, preparatory, introductory

(1) **preliminary** investigation, (2) **preliminary** agreement

Before starting the project, we need to go through some **preliminary** research and planning.

detection

n. the act of discovering or identifying the presence of something

synonym: discovery, identification, recognition

(1) **detection** by the security software, (2) importance of early **detection**

This smartphone has a collision **detection** function.

phosphine

n. a colorless, flammable gas that is made up of one phosphorus atom and three hydrogen atoms and has a fishy or garlic-like odor

synonym: phosphorus hydride, diphosphine, phosphorus trihydride

(1) **phosphine** gas, (2) organic **phosphine**

The synthesis of **phosphine** was first achieved in the 17th

century.

compelling

adj. arousing strong and irresistible interest, attention, or admiration

synonym: tempting, captivating, influential

(1) tell a **compelling** story, (2) new and **compelling** evidence

His **compelling** presentation deeply moved everyone.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

hell

n. the place thought to be where bad people go and are punished after death, often depicted as being located beneath the earth; an extraordinarily unpleasant or difficult place

synonym: inferno, agony, misery

(1) run like **hell**, (2) **hell** broke loose

The battlefield became **hell** on earth.

temperature

n. the degree of hotness or coldness of a thing or place

synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric

temperature

Cities around the world set records for highest **temperatures** this summer.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

temperate

adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

synonym : moderate, mild, genial

(1) **temperate** grassland, (2) **temperate** behavior

The **temperate** climate of the region made it an ideal vacation spot.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym : duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

vet

n. (also a veterinarian) a person who has a medical degree trained to examine and take care of the health of animals; (verb) to carefully examine, investigate, or evaluate someone or something, often for the purpose of determining suitability or eligibility

synonym : veterinarian, inspector, examiner

(1) **vet** clinic, (2) **vet** check-up

We had to take our dog to the **vet** because she was not feeling well.

verify

v. to check that something exists or is true, or to prove that something is correct

synonym :

affirm, ascertain, confirm

(1) **verify** a document, (2) **verify** identity

We always **verify** all critical information independently.

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.

photochemical

adj. relating to or caused by the chemical effects of light, particularly those that involve the absorption or emission of light by molecules in a reaction

synonym: photooxidative, photoreactive, phototoxic

(1) **photochemical** degradation, (2) **photochemical** reaction

Photochemical smog is a major problem in many urban areas.

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.

profound

adj. extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

synonym: deep, unsounded, far-reaching

(1) a **profound** book, (2) the **profound** depths of the sea

My mother's illness had a **profound** impact on us all.

generation

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

synonym: cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity
The younger **generation** has different values and beliefs than the older one.

sober

adj. not drunk or affected by alcohol; dignified in manner or character and committed to keeping promises

synonym: calm, lucid, temperate

(1) **sober** discussion, (2) as **sober** as a judge

He led a **sober** life.

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym: far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym: bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

cotton

n. a plant that is grown in warm countries and bears bolls containing seeds with soft and long hairs that are made into textile fiber and thread for sewing

(1) **cotton** cloth, (2) culture of **cotton**

The price of raw **cotton** continued to rise.

molten

adj. in a liquid state as a result of being heated

synonym: melted, liquefied, fused

(1) a **molten** image, (2) **molten** lava

The **molten** metal was poured into the mold.

flare

- v. to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface

synonym: blaze, ignite, light up

(1) **flare** up into a major crisis, (2) the **flare** of a match
The Sun **flared** and caused a sudden brightening in the sky.

claim

- v. to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

synonym: assert, declare, maintain

(1) **claim** responsibility, (2) false **claim**
He wants to **claim** ownership of the abandoned property.

distinguish

- v. to notice or understand the difference between two people or things

synonym: determine, differentiate, characterize

(1) **distinguish** these two things, (2) **distinguish** man from the other animals

This study **distinguished** four different ways to run a business.

ambiguity

- n. the quality of being open to more than one interpretation; the uncertainty of meaning

synonym: uncertainty, vagueness, obscurity

(1) free from **ambiguity**, (2) avoid **ambiguity** in writing
The **ambiguity** in the instructions made it difficult for her to complete the task.

clue

- n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

synonym: hint, indication, inkling

(1) a **clue** about the crime, (2) a **clue** to the diagnosis
The police couldn't find a **clue** to her whereabouts.

vital

adj. necessary for the success or continued existence of something

synonym : critical, crucial, invigorating

(1) play a **vital** role, (2) **vital** for a healthy society

Perseverance and optimism are **vital** to success.

explore

v. 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.

mar

v. to damage or spoil the appearance or surface of something

synonym : damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation

The scratches on the car **marred** its otherwise perfect appearance.

universe

n. 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.

debate

n. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives

synonym : argument, discussion, dispute

(1) **debate** topic, (2) **debate** competition

The **debate** over climate change continues to be a hot topic in politics.

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of kilometers.

desire

n. a strong feeling of wanting to have or do something

synonym: ambition, appetite, greed

(1) unsatisfied **desire**, (2) fleshly **desire**

Low sexual **desire** typically correlates with low testosterone levels.

nuanced

adj. characterized by subtle differences in appearance, meaning, sound, etc.

synonym: fine, subtle, slight

(1) **nuanced** view, (2) the common but **nuanced** opinion

The sommelier can distinguish **nuanced** variance in the flavor of the wine.

balance

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

synonym: equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

dual

adj. having two parts, aspects, or elements

synonym: twofold, binary, double

(1) **dual** purpose, (2) **dual** nationality

This laptop has a **dual-core** processor, making it fast and efficient.

skepticism

n. an attitude of doubting or questioning that claims or statements are true or valuable or that something will happen; the disbelief in any claims of ultimate

knowledge

synonym: distrust, doubt, suspicion

(1) natural **skepticism**, (2) **skepticism** toward bureaucracy

This party expresses **skepticism** about the efficacy of the health insurance system.

teleport

v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

synonym: beam, transport, transmit

(1) **teleport** objects through space, (2) **teleport** to any location in the world

The magician seemed to **teleport** instantly from one side of the stage to the other.

kangaroo

n. a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly

synonym: bouncy, marsupial, joey

(1) giant **kangaroo**, (2) red **kangaroo**

The female **kangaroo** carries and nurses her young, or joey, in a pouch on her belly.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

teem

v. to be abuzz; to move in large numbers; to fall heavily

synonym: brim, swarm, overflow

(1) **teem** with activity, (2) **teem** down

The city **teems** with traffic on holiday.

complexity

n. 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.

humble

adj. having or showing a modest or low estimate of one's quality or importance

synonym: modest, unpretentious, abject

(1) a **humble** cottage, (2) **humble** opinion

The nobler, the more **humble**.

uncertain

adj. not being sure of something; not being able to choose

synonym: doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

Session 2: Spelling

- | | |
|--|---|
| 1. bio_____ures discovery | <i>n.</i> distinctive chemical or physical features that indicate the presence of past or current life |
| 2. new and com_____ng evidence | <i>adj.</i> arousing strong and irresistible interest, attention, or admiration |
| 3. pr_____s improvement | <i>n.</i> 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 |
| 4. hu____e race | <i>n.</i> a barrier or obstacle that must be overcome |
| 5. a pr_____nd book | <i>adj.</i> extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension |
| 6. ov_____me all difficulties | <i>v.</i> to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone |
| 7. do_____te over the weak | <i>v.</i> to have or control a lot of power and influence over somebody or something |
| 8. tec_____cal policy | <i>adj.</i> based on scientific and industrial progress |
| 9. dis_____sh man from the other animals | <i>v.</i> to notice or understand the difference between two people or things |

ANSWERS: 1. biosignature, 2. compelling, 3. process, 4. hurdle, 5. profound, 6. overcome, 7. dominate, 8. technological, 9. distinguish

10. de___e topic *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
11. information ba____r *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
12. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
13. in_____et the question *v.* to explain or assign the meaning of information, actions, etc.
14. a mo___n image *adj.* in a liquid state as a result of being heated
15. ex_____e our options *v.* 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. run like h__l *n.* the place thought to be where bad people go and are punished after death, often depicted as being located beneath the earth; an extraordinarily unpleasant or difficult place
17. bio_____ures detection *n.* distinctive chemical or physical features that indicate the presence of past or current life
18. ve___y identity *v.* to check that something exists or is true, or to prove that something is correct

ANSWERS: 10. debate, 11. barrier, 12. complexity, 13. interpret, 14. molten, 15. explore, 16. hell, 17. biosignature, 18. verify

19. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
20. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
21. de_____on by the security software *n.* the act of discovering or identifying the presence of something
22. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
23. ph_____ne gas *n.* a colorless, flammable gas that is made up of one phosphorus atom and three hydrogen atoms and has a fishy or garlic-like odor
24. dis_____sh these two things *v.* to notice or understand the difference between two people or things
25. bachelor's de_____e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
26. avoid am_____ty in writing *n.* the quality of being open to more than one interpretation; the uncertainty of meaning
27. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
28. asset on the company's ba_____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
29. hu_____e opinion *adj.* having or showing a modest or low estimate of one's quality or importance
30. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are

ANSWERS: 19. confuse, 20. temperature, 21. detection, 22. geology, 23. phosphine, 24. distinguish, 25. degree, 26. ambiguity, 27. emit, 28. balance, 29. humble, 30. identify

31. a di____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
32. she is a little n_t *n.* the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person
33. pho_____cal degradation *adj.* relating to or caused by the chemical effects of light, particularly those that involve the absorption or emission of light by molecules in a reaction
34. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
35. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
36. di____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
37. a hu___e cottage *adj.* having or showing a modest or low estimate of one's quality or importance
38. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
39. a convivial atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
40. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something

ANSWERS: 31. distant, 32. nit, 33. photochemical, 34. radiation, 35. biology, 36. distant, 37. humble, 38. determinant, 39. atmosphere, 40. define

41. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
42. sp_____ht effect *n.* a beam of light used to illuminate a particular area or person
43. te_____rt to any location in the world *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
44. tr____y problem *adj.* requiring care and skill because challenging to do or deal with
45. atmospheric me_____e *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
46. te_____te behavior *adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
47. te_____rt objects through space *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
48. n_t in the dog's fur *n.* the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person
49. m_r a proper relationship *v.* to damage or spoil the appearance or surface of something
50. pre_____ry investigation *adj.* serving as a preparation for something more important or extensive; introductory; taking place before the main event or decision

ANSWERS: 41. weird, 42. spotlight, 43. teleport, 44. tricky, 45. methane, 46. temperate, 47. teleport, 48. nit, 49. mar, 50. preliminary

51. pre_____ry agreement *adj.* serving as a preparation for something more important or extensive; introductory; taking place before the main event or decision
52. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
53. ext_____ial intelligence *adj.* relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
54. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
55. tell a com_____ng story *adj.* arousing strong and irresistible interest, attention, or admiration
56. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
57. a planetary or___t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
58. electromagnetic ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
59. a tr___y recipe to follow *adj.* requiring care and skill because challenging to do or deal with

ANSWERS: 51. preliminary, 52. planet, 53. extraterrestrial, 54. discovery, 55. compelling, 56. detect, 57. orbit, 58. radiation, 59. tricky

60. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
61. take an un_____in attitude *adj.* not being sure of something; not being able to choose
62. the common but nu_____d opinion *adj.* characterized by subtle differences in appearance, meaning, sound, etc.
63. culture of co___n *n.* a plant that is grown in warm countries and bears bolls containing seeds with soft and long hairs that are made into textile fiber and thread for sewing
64. the inland of a co_____nt *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
65. v_t clinic *n.* (also a veterinarian) a person who has a medical degree trained to examine and take care of the health of animals; (verb) to carefully examine, investigate, or evaluate someone or something, often for the purpose of determining suitability or eligibility
66. play a vi__l role *adj.* necessary for the success or continued existence of something
67. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
68. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects

ANSWERS: 60. oxide, 61. uncertain, 62. nuanced, 63. cotton, 64. continent, 65. vet, 66. vital, 67. degree, 68. telescope

69. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
70. mo____n lava *adj.* in a liquid state as a result of being heated
71. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
72. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
73. co____n cloth *n.* a plant that is grown in warm countries and bears bolls containing seeds with soft and long hairs that are made into textile fiber and thread for sewing
74. local ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
75. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
76. tec_____cal advancement *adj.* based on scientific and industrial progress
77. the ba_____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
78. unsatisfied de____e *n.* a strong feeling of wanting to have or do something
79. red ka_____oo *n.* a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly

ANSWERS: 69. indicate, 70. molten, 71. universe, 72. intelligent, 73. cotton, 74. geology, 75. telescope, 76. technological, 77. balance, 78. desire, 79. kangaroo

80. amateur ast_____er *n.* a physicist who studies astronomy
81. sp_____ht moment *n.* a beam of light used to illuminate a particular area or person
82. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
83. the fl__e of a match *v.* to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface
84. ext_____ial planet *adj.* relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
85. so__r discussion *adj.* not drunk or affected by alcohol; dignified in manner or character and committed to keeping promises
86. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
87. artificial bi_____re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
88. v_t check-up *n.* (also a veterinarian) a person who has a medical degree trained to examine and take care of the health of animals; (verb) to carefully examine, investigate, or evaluate someone or something, often for the purpose of determining suitability or eligibility

ANSWERS: 80. astronomer, 81. spotlight, 82. oxide, 83. flare, 84. extraterrestrial, 85. sober, 86. reproduce, 87. biosphere, 88. vet

89. ske_____sm toward bureaucracy *n.* an attitude of doubting or questioning that claims or statements are true or valuable or that something will happen; the disbelief in any claims of ultimate knowledge
90. cl__m responsibility *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
91. an une_____ed visitor *adj.* not anticipated or regarded as likely to happen
92. st_____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
93. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
94. in_____et a graph *v.* to explain or assign the meaning of information, actions, etc.
95. d__l nationality *adj.* having two parts, aspects, or elements
96. not nec_____ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
97. vi__l for a healthy society *adj.* necessary for the success or continued existence of something
98. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
99. natural ske_____sm *n.* an attitude of doubting or questioning that claims or statements are true or valuable or that something will happen; the disbelief in any claims of ultimate knowledge

ANSWERS: 89. skepticism, 90. claim, 91. unexpected, 92. stretch, 93. incredibly, 94. interpret, 95. dual, 96. necessarily, 97. vital, 98. microbe, 99. skepticism

100. co_____m the diagnosis *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
101. lack of ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
102. int_____nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
103. co_____m a transaction *v.* to support or establish the truth or certainty of something previously believed or suspected to be the case
104. sparkle like fi____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
105. co_____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
106. ov_____me opponents *v.* to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone
107. a c__e to the diagnosis *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
108. te_____te grassland *adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

ANSWERS: 100. confirm, 101. oxygen, 102. intelligent, 103. confirm, 104. firefly, 105. confuse, 106. overcome, 107. clue, 108. temperate

109. fleshly de___e *n.* a strong feeling of wanting to have or do something
110. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
111. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
112. solar ast_____er *n.* a physicist who studies astronomy
113. a c__e about the crime *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
114. cost ba_____r *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
115. fl__e up into a major crisis *v.* to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface
116. co_____nt urinary diversion *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
117. free from am_____ty *n.* the quality of being open to more than one interpretation; the uncertainty of meaning
118. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely

ANSWERS: 109. desire, 110. generation, 111. complexity, 112. astronomer, 113. clue, 114. barrier, 115. flare, 116. continent, 117. ambiguity, 118. incredibly

119. opt_____ic outlook *adj.* hoping or expecting that good thing will happen or something will be successful
120. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
121. overcome hu___es *n.* a barrier or obstacle that must be overcome
122. h__l broke loose *n.* the place thought to be where bad people go and are punished after death, often depicted as being located beneath the earth; an extraordinarily unpleasant or difficult place
123. t__m down *v.* to be abuzz; to move in large numbers; to fall heavily
124. as_____my science *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
125. as so__r as a judge *adj.* not drunk or affected by alcohol; dignified in manner or character and committed to keeping promises
126. the glow of a fi_____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
127. terrestrial bi_____re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms

ANSWERS: 119. optimistic, 120. indicate, 121. hurdle, 122. hell, 123. teem, 124. astronomy, 125. sober, 126. firefly, 127. biosphere

128. he is opt_____ic *adj.* hoping or expecting that good thing will happen or something will be successful
129. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
130. d__l purpose *adj.* having two parts, aspects, or elements
131. ve___y a document *v.* to check that something exists or is true, or to prove that something is correct
132. reduce me_____e emissions *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
133. the pr_____nd depths of the sea *adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension
134. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
135. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
136. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
137. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
138. false cl__m *v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true

ANSWERS: 128. optimistic, 129. microbe, 130. dual, 131. verify, 132. methane, 133. profound, 134. temperature, 135. define, 136. identify, 137. determinant, 138. claim

139. m_r the reputation *v.* to damage or spoil the appearance or surface of something
140. t__m with activity *v.* to be abuzz; to move in large numbers; to fall heavily
141. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
142. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
143. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
144. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
145. decision-making pr_____s *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
146. giant ka_____oo *n.* a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly
147. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 139. mar, 140. teem, 141. weird, 142. generation, 143. biology, 144. detect, 145. process, 146. kangaroo, 147. discovery

148. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
149. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
150. population de_____y *n.* the quality of compactness of a substance
151. numerous un_____in factors *adj.* not being sure of something; not being able to choose
152. nu_____d view *adj.* characterized by subtle differences in appearance, meaning, sound, etc.
153. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
154. the or__t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
155. de___e competition *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
156. ex_____e the world *v.* 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
157. a branch of as_____my *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

ANSWERS: 148. reproduce, 149. stretch, 150. density, 151. uncertain, 152. nuanced, 153. emit, 154. orbit, 155. debate, 156. explore, 157. astronomy

158. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
159. nec_____ly true *adv.* in an essential manner; in such a way as could not be otherwise
160. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
161. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
162. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
163. resident al__ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
164. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
165. importance of early de_____on *n.* the act of discovering or identifying the presence of something
166. higher pixel de_____y *n.* the quality of compactness of a substance
167. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 158. alien, 159. necessarily, 160. amazing, 161. universe, 162. atmosphere, 163. alien, 164. amazing, 165. detection, 166. density, 167. oxygen

168. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
169. pho_____cal reaction *adj.* relating to or caused by the chemical effects of light, particularly those that involve the absorption or emission of light by molecules in a reaction
170. do_____te possession *v.* to have or control a lot of power and influence over somebody or something
171. organic ph_____ne *n.* a colorless, flammable gas that is made up of one phosphorus atom and three hydrogen atoms and has a fishy or garlic-like odor
172. some une_____ed events *adj.* not anticipated or regarded as likely to happen

ANSWERS: 168. planet, 169. photochemical, 170. dominate, 171. phosphine, 172. unexpected

Session 3: Fill in the Blanks

1. The battlefield became _____ on earth.
n. the place thought to be where bad people go and are punished after death, often depicted as being located beneath the earth; an extraordinarily unpleasant or difficult place
2. The Sun _____ and caused a sudden brightening in the sky.
v. to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface
3. This question has fascinated solar _____ for decades.
n. a physicist who studies astronomy
4. The _____ metal was poured into the mold.
adj. in a liquid state as a result of being heated
5. The younger _____ has different values and beliefs than the older one.
n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity
6. _____ species have drastically altered the ecosystem in this area.
n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
7. _____ smog is a major problem in many urban areas.
adj. relating to or caused by the chemical effects of light, particularly those that involve the absorption or emission of light by molecules in a reaction

ANSWERS: 1. hell, 2. flared, 3. astronomers, 4. molten, 5. generation, 6. Alien, 7. Photochemical

8. The police couldn't find a _____ to her whereabouts.
n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
9. He tried to _____ a bad reputation and win the election.
v. to succeed in controlling or dealing with something, such as a problem or difficulty; to defeat or overwhelm someone
10. Flight across the _____ was a daring adventure in its day.
n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
11. The _____ rainstorm caused the collapse of the corral.
adj. not anticipated or regarded as likely to happen
12. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
13. We had to take our dog to the ____ because she was not feeling well.
n. (also a veterinarian) a person who has a medical degree trained to examine and take care of the health of animals; (verb) to carefully examine, investigate, or evaluate someone or something, often for the purpose of determining suitability or eligibility
14. Some herds have been observed to _____ hundreds of kilometers.
v. to make or be capable of making anything longer or broader without hurting or breaking
15. My mother's illness had a _____ impact on us all.
adj. extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

ANSWERS: 8. clue, 9. overcome, 10. continent, 11. unexpected, 12. Technological, 13. vet, 14. stretch, 15. profound

16. He led a _____ life.

adj. not drunk or affected by alcohol; dignified in manner or character and committed to keeping promises

17. The sommelier can distinguish _____ variance in the flavor of the wine.

adj. characterized by subtle differences in appearance, meaning, sound, etc.

18. The city _____ with traffic on holiday.

v. to be abuzz; to move in large numbers; to fall heavily

19. Careful brushing can remove _____.

n. the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person

20. Do you know the _____ of the population in Hong Kong?

n. the quality of compactness of a substance

21. The synthesis of _____ was first achieved in the 17th century.

n. a colorless, flammable gas that is made up of one phosphorus atom and three hydrogen atoms and has a fishy or garlic-like odor

22. Please write to _____ your reservation.

v. to support or establish the truth or certainty of something previously believed or suspected to be the case

23. Cities around the world set records for highest _____ this summer.

n. the degree of hotness or coldness of a thing or place

24. The female _____ carries and nurses her young, or joey, in a pouch on her belly.

n. a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly

ANSWERS: 16. sober, 17. nuanced, 18. teems, 19. nit, 20. density, 21. phosphine, 22. confirm, 23. temperatures, 24. kangaroo

25. Scientists are constantly searching for signs of _____ life in the universe.
adj. relating to or existing outside of the Earth's atmosphere or planetary boundaries; pertaining to beings or phenomena that originate from beyond the Earth
26. She received her _____ in psychology from the university.
n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
27. He had a deep passion for extragalactic _____ and spent hours observing the night sky.
n. the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
28. The company faced several _____ in the development of its new product.
n. a barrier or obstacle that must be overcome
29. Scientists are searching for _____ on other planets that could indicate the presence of life.
n. distinctive chemical or physical features that indicate the presence of past or current life
30. Perseverance and optimism are _____ to success.
adj. necessary for the success or continued existence of something
31. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 25. extraterrestrial, 26. degree, 27. astronomy, 28. hurdles, 29. biosignatures, 30. vital, 31. universe

32. Low sexual _____ typically correlates with low testosterone levels.
n. a strong feeling of wanting to have or do something
33. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire
34. I will introduce you to how to _____ the leading causes of the malfunction.
v. to recognize someone or something and say or prove who or what they are
35. The police placed a _____ across the street to halt traffic.
n. a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
36. Her remarks _____ the debate.
v. to mistake one thing for another; to make somebody hard to understand
37. He was a visiting _____ professor at the University of Tokyo.
n. a science that deals with the history of the earth as recorded in rocks
38. By dividing and creating copies of themselves, bacteria _____.
v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
39. The singer was in the _____ as she performed her hit song.
n. a beam of light used to illuminate a particular area or person
40. This laptop has a _____ processor, making it fast and efficient.
adj. having two parts, aspects, or elements

ANSWERS: 32. desire, 33. amazing, 34. identify, 35. barrier, 36. confused, 37. geology, 38. reproduce, 39. spotlight, 40. dual-core

41. We always _____ all critical information independently.
v. to check that something exists or is true, or to prove that something is correct
42. She was _____ about her friend's intentions.
adj. not being sure of something; not being able to choose
43. The scratches on the car _____ its otherwise perfect appearance.
v. to damage or spoil the appearance or surface of something
44. _____ robots that can cooperate with humans have limited motor output for safety.
adj. having the capacity for thought and reason, especially to a high degree
45. The price of raw _____ continued to rise.
n. a plant that is grown in warm countries and bears bolls containing seeds with soft and long hairs that are made into textile fiber and thread for sewing
46. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
47. The sun set over the crest of _____ hills.
adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship
48. This facility has the largest astronomical _____ in the country.
n. a device like a tube in shape containing lenses used to magnify and observe distant objects

ANSWERS: 41. verify, 42. uncertain, 43. marred, 44. Intelligent, 45. cotton, 46. determinant, 47. distant, 48. telescope

49. Several cities are experiencing _____ high unemployment rates.

adv. in a way that is very difficult to believe; exceedingly or extremely

50. The security camera has _____ four intruders.

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

51. The magician seemed to _____ instantly from one side of the stage to the other.

v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

52. He tried every possible treatment, including chemotherapy and _____ therapy.

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

53. The management must _____ strategies to increase office security.

v. 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

54. This accident was something that happened _____.

adv. in an essential manner; in such a way as could not be otherwise

55. The _____ in the instructions made it difficult for her to complete the task.

n. the quality of being open to more than one interpretation; the uncertainty of meaning

56. Mercury is the closest _____ to the sun.

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 49. incredibly, 50. detected, 51. teleport, 52. radiation, 53. explore, 54. necessarily, 55. ambiguity, 56. planet

57. The ignition of _____ gas in the plant killed five employees.
n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
58. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
59. This smartphone has a collision _____ function.
n. the act of discovering or identifying the presence of something
60. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
61. The passenger grabbed for the _____ mask.
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
62. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
63. We have discussed the entirety of this _____ problem.
adj. requiring care and skill because challenging to do or deal with
64. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
65. Most executives were _____ about future business conditions.
adj. hoping or expecting that good thing will happen or something will be successful

ANSWERS: 57. methane, 58. oxide, 59. detection, 60. discovery, 61. oxygen, 62. complexity, 63. tricky, 64. biology, 65. optimistic

66. To advance this discussion, we must _____ "success" rigorously.
- v.* to state or explain precisely the nature, scope, or meaning of something
67. The rocket engine is used to put the satellite into _____.
- n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
68. My computer has been acting _____ recently.
- adj.* extraordinary, unexpected, or difficult to explain
69. _____ thrive on the surface of the human skin.
- n.* a tiny living thing that can only be seen with a microscope and that may cause disease
70. He wants to _____ ownership of the abandoned property.
- v.* to assert that something is true; to demand or request something as one's own; to lay legal or moral right to something; (noun) a demand or assertion of a right or something that one believes to be true
71. The _____ for applying for a visa can be lengthy and complicated.
- 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
72. In that country, there is a culture of eating live _____ squid.
- n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
73. The _____ climate of the region made it an ideal vacation spot.
- adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

ANSWERS: 66. define, 67. orbit, 68. weird, 69. Microbes, 70. claim, 71. process, 72. firefly, 73. temperate

74. The nobler, the more _____.

adj. having or showing a modest or low estimate of one's quality or importance

75. This party expresses _____ about the efficacy of the health insurance system.

n. an attitude of doubting or questioning that claims or statements are true or valuable or that something will happen; the disbelief in any claims of ultimate knowledge

76. This study _____ four different ways to run a business.

v. to notice or understand the difference between two people or things

77. Different people might _____ this news differently.

v. to explain or assign the meaning of information, actions, etc.

78. His _____ presentation deeply moved everyone.

adj. arousing strong and irresistible interest, attention, or admiration

79. The balance of the _____ is crucial for the survival of species.

n. the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms

80. The _____ over climate change continues to be a hot topic in politics.

n. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives

81. The data _____ that the company's profits have steadily increased over the past quarter.

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

ANSWERS: 74. humble, 75. skepticism, 76. distinguished, 77. interpret, 78. compelling, 79. biosphere, 80. debate, 81. indicates

82. Before starting the project, we need to go through some _____ research and planning.

adj. serving as a preparation for something more important or extensive; introductory; taking place before the main event or decision

83. During the unloading, the container box _____ a clicking sound.

v. to give off or send out something such as light, heat, sound, gas, etc.

84. Try to keep a _____ between work and off.

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

85. The perspective of his right brain _____ his consciousness.

v. to have or control a lot of power and influence over somebody or something

86. The spaceship began to burn up as it approached the Earth's _____.

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

ANSWERS: 82. preliminary, 83. emits, 84. balance, 85. dominates, 86. atmosphere