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Vocabulary Builder Reference from...

Augusto Carballido: There may be extraterrestrial life in our solar system | TED Talk

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

All Words

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Session 1: Word List

unfold

v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

synonym: open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

beneath

adv. in or to a lower place than someone or something

synonym: down, under, low

(1) the ground **beneath** my feet, (2) **beneath** contempt

A great stretch of the lake lay **beneath** them.

vapor

n. a mass of tiny liquid drops in the air

synonym: condensation, dew, fog

(1) alcohol **vapor**, (2) water **vapor** in the atmosphere

Clouds form when water **vapor** rises to the upper atmosphere.

plume

n. 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.

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.

titanic

adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
synonym: colossal, massive, immense
(1) **titanic** battle, (2) **titanic** compound
The **titanic** ship sank on its maiden voyage.

astrobiology

n. the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
(1) **astrobiology** finding, (2) valuable data for **astrobiology**
The discovery of liquid water on Mars has opened up new avenues for **astrobiology** research.

hunt

v. to go after and try to catch wild animals to kill them for food, sport, or profit
synonym: chase, pursuit, quest
(1) **hunt** a job, (2) **hunt** after knowledge
Hounds **hunt** their prey by using their keen scent.

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.

hone

v. to sharpen or perfect something; to improve a skill or ability through practice

synonym: sharpen, refine, perfect

(1) **hone** abilities, (2) **hone** intuition

The athlete worked with a coach to **hone** her techniques and improve her performance.

environment

n. 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**.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym: fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

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**.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym: purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the

body's **function**.

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.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

component

n. one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

compound

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

synonym: combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

suspension

n. the act of delaying or stopping something happening, operating, etc., for a period of time; a mechanical system of springs or shock absorbers connecting the

wheels and axles

synonym : moratorium, abeyance, break

(1) **suspension** of arms, (2) **suspension** bridge

The court ordered a long-term **suspension** of business.

sink

v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

synonym : descend, drop, plummet

(1) **sink** a lot of capital, (2) **sink** a buzzer-beater

The abandoned ship slowly began to **sink** into the murky waters of the harbor.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym : heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

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.

frequent

adj. happening constantly

synonym : periodic, recurring, routine

(1) **frequent** absence, (2) **frequent** use

His heartaches are less **frequent** now.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym :

response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

synonym: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym: exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

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.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

advantage

n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

synonym: benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

stable

adj. firm and steady; not easily moved, disturbed, or changed

synonym: sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively **stable** due to the summit meeting.

insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

synonym: isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity

We had our bedroom **insulated** before winter came.

shift

n. a slight transition in position, direction, or trend

synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**

Could you help me **shift** some furniture?

aquatic

adj. growing or living in, on or near, or connected with water

synonym: marine, submarine, oceanic

(1) **aquatic** vehicles, (2) **aquatic** life

Aquatic ecosystems perform many essential environmental functions.

emergence

n. the process or fact of coming into existence or becoming apparent

synonym: appearance, emergence, rise

(1) **emergence** as a national leader, (2) re- **emergence** of rampant inflation

The **emergence** of a new virus can cause concern for public health.

icy

adj. covered with ice or frost; very cold; lacking warmth or friendliness

synonym: frosty, cold, glacial

(1) **icy** clouds, (2) cast **icy** eyes

The **icy** surface of the pond was not safe for skating.

Jovian

adj. relating to Jupiter or its characteristics

synonym: Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

intriguing

adj. arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating

synonym: fascinating, captivating, arresting

(1) **intriguing** concept, (2) **intriguing** character

The novel's plot was **intriguing** and kept readers in their seats.

mount

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

synonym: climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

harbor

n. an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

synonym : port, dock, pier

(1) a sheltered **harbor**, (2) **harbor** a resentment

The tsunami swamped every boat in the **harbor**.

probe

n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym : investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

deduce

v. to arrive at an answer, a conclusion, or a decision by reasoning

synonym : conclude, infer, suppose

(1) **deduce** facts from the evidence, (2) **deduce** the meaning of a word

The researcher **deduced** the momentum of the particles from meteoritic velocities.

characteristic

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym : feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest

of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym : enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

nestle

v. to settle comfortably or cozily into a place

synonym : snuggle, cuddle, curl up

(1) **nestle** deeper against him, (2) **nestle** in a cozy spot

The cat **nestled** in my lap and fell asleep.

gulf

n. a large ocean inlet or deep bay that is partially enclosed by land

synonym : chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

similarly

adv. in almost the same way

synonym : also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

geyser

n. a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes

synonym : hot spring, fumarole

(1) erupting **geyser**, (2) Yellowstone **geyser**

The **geyser's** hot water generates electricity for nearby towns and cities.

vent

n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong

creative energy or emotion

synonym : duct, outlet, venthole

(1) volcanic **vent**, (2) **vent** tube

He gave **vent** to his anger by playing the guitar.

grain

n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

synonym : seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

enabling

adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

synonym : facilitating, empowering, authorized

(1) **enabling** infrastructure, (2) **enabling** mindset

Enabling technologies allows people with disabilities to lead more independent lives.

substance

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

synonym : essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

nurture

v. to take care of, feed, and protect someone or something while they are growing and developing

synonym : boost, cultivate, enable

(1) **nurture** love, (2) **nurture** his talents

Schools should **nurture** children's mutual interest spirit.

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**.

medium

adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

synonym: average, intermediate, (noun) channel

(1) **medium** color, (2) an advertising **medium**

The **medium** size shirt fits him perfectly.

nitrogen

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

Nitrogen gas is used to inflate car tires because it does not react with rubber.

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**.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym: biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

condense

v. to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

synonym: compress, compact, shorten

(1) **condense** the text, (2) **condense** water vapor
I need to **condense** all of my notes into a manageable summary for my presentation.

sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym: maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

quantity

n. the amount or number of something; magnitude

synonym: abundance, portion, amount

(1) half **quantity**, (2) residual **quantity**

In southward, the average annual water **quantity** increases.

unfamiliar

adj. not known or recognized; not experienced or encountered before

synonym: unknown, strange, foreign

(1) the **unfamiliar** surroundings, (2) around **unfamiliar** people

She was **unfamiliar** with the city and got lost while trying to find her way back to the hotel.

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.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

comparable

adj. able to link the similarities or differences with others; similar or equivalent to someone or something

synonym: equal, commensurate, similar

(1) **comparable** sales, (2) a **comparable** amount of energy

Humans and apes have **comparable** anatomical structures.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to antibiotics.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

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.

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.

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

mineral

n. a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral**

resources.

trace

v. to find or discover someone or something that was lost
synonym: seek, follow, depict

(1) **trace** a telephone call, (2) **trace** back to medieval times
Let's **trace** the origins of some familiar foreign words.

sterilize

v. to make something free of all forms of life, especially bacteria or viruses, by using heat, chemicals, or radiation

synonym: disinfect, sanitize, cleanse

(1) **sterilize** chemically, (2) **sterilize** surfaces

The nurse **sterilized** the instruments before the surgery to prevent any infections.

thorough

adj. done completely; significantly careful and accurate

synonym: complete, comprehensive, meticulous

(1) **thorough** investigation, (2) provide **thorough** analysis

A **thorough** brushing helps to keep your mouth fresh.

accidentally

adv. by chance or without planning

synonym: by chance, unintentionally, unwittingly

(1) they met **accidentally**, (2) **accidentally** coincide

He was **accidentally** killed by friendly fire.

contaminate

v. to make something impure, unclean, or poisonous by contact or mixture

synonym: defile, pollute, adulterate

(1) **contaminate** with a disease, (2) **contaminate** his ego

We strive not to **contaminate** the environment when demolishing petroleum plants.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym: demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

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.

candidate

n. a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant

synonym: applicant, nominee, contender

(1) **candidate** selection, (2) PhD **candidate**

The **candidate's** platform focused on healthcare reform and reducing income inequality.

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.

Session 2: Spelling

1. extreme tem_____res
n. the degree of hotness or coldness of a thing or place
2. a ch_____al compound
adj. relating to or connected with chemistry;
3. bio_____le structure
n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
4. driving di_____ce
n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
5. unsolved my_____y
n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
6. Jo_____n satellites
adj. relating to Jupiter or its characteristics
7. s__k a buzzer-beater
v. to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

ANSWERS: 1. temperature, 2. chemical, 3. biomolecule, 4. distance, 5. mystery, 6. Jovian, 7. sink

8. su____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
9. mo__t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
10. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
11. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
12. burning of fo____l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
13. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
14. de_____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
15. alcohol va__r *n.* a mass of tiny liquid drops in the air
16. a fo____l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
17. nu_____e love *v.* to take care of, feed, and protect someone or something while they are growing and developing

ANSWERS: 8. sustain, 9. mount, 10. temperature, 11. sensitive, 12. fossil, 13. reaction, 14. destroy, 15. vapor, 16. fossil, 17. nurture

18. pl__e of feathers *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
19. 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
20. heavy ni____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
21. bio____ures detection *n.* distinctive chemical or physical features that indicate the presence of past or current life
22. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
23. em____ce as a national leader *n.* the process or fact of coming into existence or becoming apparent
24. Doppler sh__t *n.* a slight transition in position, direction, or trend
25. int____ng character *adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating
26. pl__e 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

ANSWERS: 18. plume, 19. indicate, 20. nitrogen, 21. biosignature, 22. addition, 23. emergence, 24. shift, 25. intriguing, 26. plume

27. aq____c vehicles *adj.* growing or living in, on or near, or connected with water
28. professor of ch____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
29. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
30. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
31. Yellowstone ge____r *n.* a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes
32. eat or____c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
33. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
34. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
35. aq____c life *adj.* growing or living in, on or near, or connected with water

ANSWERS: 27. aquatic, 28. chemistry, 29. gulf, 30. molecule, 31. geyser, 32. organic, 33. addition, 34. gravity, 35. aquatic

36. tr__e back to medieval times *v.* to find or discover someone or something that was lost
37. half qu____ty *n.* the amount or number of something; magnitude
38. trigger a re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
39. harmful co____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
40. st____ze surfaces *v.* to make something free of all forms of life, especially bacteria or viruses, by using heat, chemicals, or radiation
41. provide th____gh analysis *adj.* done completely; significantly careful and accurate
42. stripes cha_____tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
43. not nec____ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
44. residual qu____ty *n.* the amount or number of something; magnitude
45. 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
46. tr__e a telephone call *v.* to find or discover someone or something that was lost

ANSWERS: 36. trace, 37. quantity, 38. reaction, 39. compound, 40. sterilize, 41. thorough, 42. characteristic, 43. necessarily, 44. quantity, 45. clue, 46. trace

47. un___d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
48. protein bio_____le *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
49. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
50. have a st___e job *adj.* firm and steady; not easily moved, disturbed, or changed
51. 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
52. sp_____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
53. 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

ANSWERS: 47. unfold, 48. biomolecule, 49. function, 50. stable, 51. extraterrestrial, 52. speculate, 53. extraterrestrial

54. hazardous li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
55. ca_____te selection *n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
56. pr___e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
57. mo__t a counterattack *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
58. aquatic co_____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
59. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
60. si_____ly situated *adv.* in almost the same way
61. ne___e deeper against him *v.* to settle comfortably or cozily into a place
62. in_____ct directly with customers *v.* to communicate or react with somebody
63. volcanic v__t *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

ANSWERS: 54. liquid, 55. candidate, 56. probe, 57. mount, 58. compound, 59. component, 60. similarly, 61. nestle, 62. interact, 63. vent

64. water va__r in the atmosphere *n.* a mass of tiny liquid drops in the air
65. nec_____ly true *adv.* in an essential manner; in such a way as could not be otherwise
66. re-em_____ce of rampant inflation *n.* the process or fact of coming into existence or becoming apparent
67. 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
68. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
69. major paradigm sh__t *n.* a slight transition in position, direction, or trend
70. en_____ng mindset *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
71. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
72. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
73. an advertising me____m *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

ANSWERS: 64. vapor, 65. necessarily, 66. emergence, 67. universe, 68. observe, 69. shift, 70. enabling, 71. complexity, 72. destroy, 73. medium

74. con_____te with a disease *v.* to make something impure, unclean, or poisonous by contact or mixture
75. a lunar pr__e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
76. s__k a lot of capital *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
77. have si_____ly great abilities *adv.* in almost the same way
78. con_____te his ego *v.* to make something impure, unclean, or poisonous by contact or mixture
79. be_____h contempt *adv.* in or to a lower place than someone or something
80. or_____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
81. me____m color *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
82. fr_____nt absence *adj.* happening constantly
83. in_____te the room from sound *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 74. contaminate, 75. probe, 76. sink, 77. similarly, 78. contaminate, 79. beneath, 80. organic, 81. medium, 82. frequent, 83. insulate

84. toxic ch____als *adj.* relating to or connected with chemistry;
85. atmospheric me____e *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
86. fr____nt use *adj.* happening constantly
87. mi____l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
88. h__t after knowledge *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
89. 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
90. 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
91. in st____e condition *adj.* firm and steady; not easily moved, disturbed, or changed
92. harmless ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
93. a com____le amount of energy *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something

ANSWERS: 84. chemical, 85. methane, 86. frequent, 87. mineral, 88. hunt, 89. atmosphere, 90. universe, 91. stable, 92. bacteria, 93. comparable

94. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
95. 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
96. nu____e his talents *v.* to take care of, feed, and protect someone or something while they are growing and developing
97. su____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
98. 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
99. key co____nt *n.* one of several parts that combines with others to form something bigger
100. cast i_y eyes *adj.* covered with ice or frost; very cold; lacking warmth or friendliness
101. vitamin and mi____ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
102. ha____r a resentment *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

ANSWERS: 94. molecule, 95. indicate, 96. nurture, 97. substance, 98. reproduce, 99. component, 100. icy, 101. mineral, 102. harbor

103. they met acc_____lly *adv.* by chance or without planning
104. com_____le sales *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something
105. int_____ng concept *adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating
106. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
107. th_____gh investigation *adj.* done completely; significantly careful and accurate
108. de___e facts from the evidence *v.* to arrive at an answer, a conclusion, or a decision by reasoning
109. st_____ze chemically *v.* to make something free of all forms of life, especially bacteria or viruses, by using heat, chemicals, or radiation
110. Jo___n planet *adj.* relating to Jupiter or its characteristics
111. take ad_____ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
112. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 103. accidentally, 104. comparable, 105. intriguing, 106. microscopic, 107. thorough, 108. deduce, 109. sterilize, 110. Jovian, 111. advantage, 112. function

113. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
114. 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
115. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
116. colorless li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
117. v__t tube *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
118. the unf_____ar surroundings *adj.* not known or recognized; not experienced or encountered before
119. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
120. co_____se water vapor *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
121. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
122. in_____te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 113. environment, 114. alien, 115. complexity, 116. liquid, 117. vent, 118. unfamiliar, 119. speculate, 120. condense, 121. chemistry, 122. insulate

123. my friend's cha_____tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
124. a remote re_____ve *adj.* considered and evaluated through comparison with something else
125. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
126. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
127. flour made from gr__n *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
128. around unf_____ar people *adj.* not known or recognized; not experienced or encountered before
129. ti_____c battle *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
130. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 123. characteristic, 124. relative, 125. bacteria, 126. observe, 127. grain, 128. unfamiliar, 129. titanic, 130. mystery

131. 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
132. 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
133. co_____se the text *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
134. un____d the story *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
135. an explosive su_____ce *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
136. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
137. score an ad_____ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
138. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land

ANSWERS: 131. reproduce, 132. atmosphere, 133. condense, 134. unfold, 135. substance, 136. nitrogen, 137. advantage, 138. gulf

139. sus_____on of arms *n.* the act of delaying or stopping something happening, operating, etc., for a period of time; a mechanical system of springs or shock absorbers connecting the wheels and axles
140. h__e intuition *v.* to sharpen or perfect something; to improve a skill or ability through practice
141. ne___e in a cozy spot *v.* to settle comfortably or cozily into a place
142. ast_____ogy finding *n.* the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
143. en_____ng infrastructure *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
144. h__e abilities *v.* to sharpen or perfect something; to improve a skill or ability through practice
145. PhD ca_____te *n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
146. acc_____lly coincide *adv.* by chance or without planning
147. bio_____ures discovery *n.* distinctive chemical or physical features that indicate the presence of past or current life
148. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 139. suspension, 140. hone, 141. nestle, 142. astrobiology, 143. enabling, 144. hone, 145. candidate, 146. accidentally, 147. biosignature, 148. sensitive

149. de___e the meaning of a word *v.* to arrive at an answer, a conclusion, or a decision by reasoning
150. erupting ge___r *n.* a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes
151. i_y clouds *adj.* covered with ice or frost; very cold; lacking warmth or friendliness
152. the ground be_____h my feet *adv.* in or to a lower place than someone or something
153. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
154. ti_____c compound *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
155. valuable data for ast_____ogy *n.* the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
156. a sheltered ha___r *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
157. 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

ANSWERS: 149. deduce, 150. geyser, 151. icy, 152. beneath, 153. distance, 154. titanic, 155. astrobiology, 156. harbor, 157. clue

158. re____ve factors *adj.* considered and evaluated through comparison with something else
159. the attraction of gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
160. reduce me____e emissions *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
161. sus_____on bridge *n.* the act of delaying or stopping something happening, operating, etc., for a period of time; a mechanical system of springs or shock absorbers connecting the wheels and axles
162. a gr__n of sand *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
163. su_____n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
164. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
165. in_____ct with one another *v.* to communicate or react with somebody
166. h__t a job *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
167. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
168. 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

ANSWERS: 158. relative, 159. gravity, 160. methane, 161. suspension, 162. grain, 163. sustain, 164. microscopic, 165. interact, 166. hunt, 167. environment, 168. alien

ANSWERS:

Session 3: Fill in the Blanks

1. 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

2. This accident was something that happened _____.
adv. in an essential manner; in such a way as could not be otherwise

3. 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

4. The _____ of a new virus can cause concern for public health.
n. the process or fact of coming into existence or becoming apparent

5. _____ technologies allows people with disabilities to lead more independent lives.
adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

6. One of the main _____ of the new product is its increased efficiency.
n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

7. We had our bedroom _____ before winter came.
v. to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 1. universe, 2. necessarily, 3. clue, 4. emergence, 5. Enabling, 6. advantages, 7. insulated

8. It is important to _____ safety procedures in the workplace to prevent accidents.
- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
9. 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
10. The novel's plot was _____ and kept readers in their seats.
- adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating
11. I need to _____ all of my notes into a manageable summary for my presentation.
- v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
12. NASA sent a _____ to study the atmosphere of Jupiter.
- n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
13. Clouds form when water _____ rises to the upper atmosphere.
- n.* a mass of tiny liquid drops in the air
14. He _____ that this investment would lead to success.
- v.* to form a theory or conjecture or guess about a subject without solid evidence

ANSWERS: 8. observe, 9. biosignatures, 10. intriguing, 11. condense, 12. probe, 13. vapor, 14. speculated

15. His heartaches are less _____ now.

adj. happening constantly

16. Let's _____ the origins of some familiar foreign words.

v. to find or discover someone or something that was lost

17. Bananas have their _____ taste and odor.

n. a typical feature or quality that can identify, tell apart, or describe something or somebody

18. The marathon runner covered a long _____ in a short amount of time.

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

19. The sponge takes up the _____ well.

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

20. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

21. The mystery _____ as the detectives gathered more clues.

v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

22. The _____ of Mexico is a body of water in the southern United States.

n. a large ocean inlet or deep bay that is partially enclosed by land

ANSWERS: 15. frequent, 16. trace, 17. characteristic, 18. distance, 19. liquid, 20. mystery, 21. unfolded, 22. Gulf

23. He gave _____ to his anger by playing the guitar.

n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

24. The _____ size shirt fits him perfectly.

adj. of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

25. 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

26. 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

27. The discovery of liquid water on Mars has opened up new avenues for _____ research.

n. the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life

28. They _____ pictures on the paper in preparation for the birthday card.

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

29. He was _____ killed by friendly fire.

adv. by chance or without planning

30. A _____ brushing helps to keep your mouth fresh.

adj. done completely; significantly careful and accurate

ANSWERS: 23. vent, 24. medium, 25. environment, 26. complexity, 27. astrobiology, 28. mounted, 29. accidentally, 30. thorough

31. Humans and apes have _____ anatomical structures.

adj. able to link the similarities or differences with others; similar or equivalent to someone or something

32. In southward, the average annual water _____ increases.

n. the amount or number of something; magnitude

33. The researchers try to discover a common _____ in all types of successful organizations.

n. one of several parts that combines with others to form something bigger

34. There was a chemical _____ of the lime with the groundwater.

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

35. The astronaut felt weightless in space due to the absence of _____.

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

36. It was the _____ of a dinosaur tooth.

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

37. _____ 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

38. The building was _____ in the fire and had to be rebuilt.

v. to ruin or damage severely or completely; to eradicate or eliminate completely

ANSWERS: 31. comparable, 32. quantity, 33. component, 34. reaction, 35. gravity, 36. fossil, 37. Alien, 38. destroyed

39. The _____ platform focused on healthcare reform and reducing income inequality.
- n.* a person who is seeking or being considered for some kind of position, title, honor, or award; a job applicant
40. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
41. He is familiar with _____ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
42. He should _____ more with his colleagues.
- v.* to communicate or react with somebody
43. Schools should _____ children's mutual interest spirit.
- v.* to take care of, feed, and protect someone or something while they are growing and developing
44. Common salt is a sodium and chlorine _____.
- n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
45. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
46. The _____ hot water generates electricity for nearby towns and cities.
- n.* a natural hot spring that periodically ejects a column of boiling water and steam into the air; a device that produces a similar effect for decorative or practical purposes

ANSWERS: 39. candidate's, 40. chemical, 41. chemistry, 42. interact, 43. nurture, 44. compound, 45. Bacteria, 46. geyser's

47. 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
48. Inspectors noticed _____ cracks in the submarine's hull.
- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
49. The _____ ship sank on its maiden voyage.
- adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
50. _____ gas is used to inflate car tires because it does not react with rubber.
- n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
51. Cities around the world set records for highest _____ this summer.
- n.* the degree of hotness or coldness of a thing or place
52. The tsunami swamped every boat in the _____.
- n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
53. The cat _____ in my lap and fell asleep.
- v.* to settle comfortably or cozily into a place
54. A great stretch of the lake lay _____ them.
- adv.* in or to a lower place than someone or something

ANSWERS: 47. reproduce, 48. microscopic, 49. titanic, 50. Nitrogen, 51. temperatures, 52. harbor, 53. nestled, 54. beneath

55. The _____ moon Europa is believed to have an ocean beneath its icy surface.

adj. relating to Jupiter or its characteristics

56. 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

57. Hounds _____ their prey by using their keen scent.

v. to go after and try to catch wild animals to kill them for food, sport, or profit

58. The kidney is an _____ component of the body.

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

59. In _____ private corporations provide healthcare services.

n. the act or process of adding something to something else; the process of adding numbers

60. The robust economy of the country is based on its _____ resources.

n. a solid inorganic substance occurring in nature having a definite chemical composition

61. The _____ of the argument was well-presented.

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

62. The shape of the DNA _____ is a double helix.

n. a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 55. Jovian, 56. extraterrestrial, 57. hunt, 58. organic, 59. addition, 60. mineral, 61. substance, 62. molecule

63. She struggled to _____ the children's reading habits.

- v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid

64. The ____ surface of the pond was not safe for skating.

- adj.* covered with ice or frost; very cold; lacking warmth or friendliness

65. Could you help me _____ some furniture?

- n.* a slight transition in position, direction, or trend

66. The brain is an incredibly complex organ that controls the body's _____.

- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

67. The researcher _____ the momentum of the particles from meteoritic velocities.

- v.* to arrive at an answer, a conclusion, or a decision by reasoning

68. 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

69. We strive not to _____ the environment when demolishing petroleum plants.

- v.* to make something impure, unclean, or poisonous by contact or mixture

ANSWERS: 63. sustain, 64. icy, 65. shift, 66. function, 67. deduced, 68. indicates, 69. contaminate

70. Ordinary air purifiers cannot adequately remove pollen _____.
- n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
71. The athlete worked with a coach to _____ her techniques and improve her performance.
- v.* to sharpen or perfect something; to improve a skill or ability through practice
72. 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
73. We argue that wages for temporary workers should _____ rise.
- adv.* in almost the same way
74. The abandoned ship slowly began to _____ into the murky waters of the harbor.
- v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
75. DNA is a complex _____ that contains the genetic information of an organism.
- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
76. The teacher is very _____ to children's feelings.
- adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 70. grains, 71. hone, 72. atmosphere, 73. similarly, 74. sink, 75. biomolecule, 76. sensitive

77. The nurse _____ the instruments before the surgery to prevent any infections.
- v.* to make something free of all forms of life, especially bacteria or viruses, by using heat, chemicals, or radiation
78. Relations between the two countries have been relatively _____ due to the summit meeting.
- adj.* firm and steady; not easily moved, disturbed, or changed
79. The court ordered a long-term _____ of business.
- n.* the act of delaying or stopping something happening, operating, etc., for a period of time; a mechanical system of springs or shock absorbers connecting the wheels and axles
80. The bird had a beautiful _____ on its head.
- n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
81. Most countries prohibit sexual activity between certain close _____.
- adj.* considered and evaluated through comparison with something else
82. She was _____ with the city and got lost while trying to find her way back to the hotel.
- adj.* not known or recognized; not experienced or encountered before
83. _____ ecosystems perform many essential environmental functions.
- adj.* growing or living in, on or near, or connected with water
84. 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

ANSWERS: 77. sterilized, 78. stable, 79. suspension, 80. plume, 81. relatives, 82. unfamiliar, 83. Aquatic, 84. methane

ANSWERS: