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Vocabulary Builder Reference from...

Karin Öberg: The galactic recipe for a living planet | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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.

obsess

v. to fill the mind of someone continually so that one can't think of anything else

synonym: torment, beset, engross

(1) **obsess** over her weight, (2) he is **obsessed** with the fear

He's utterly **obsessed** with his promotion.

argue

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

synonym: debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for dinner.

accompany

v. to go somewhere or travel with someone or something
synonym: follow, escort, attend

(1) **accompany** a chicken dish, (2) **accompany** the book
Please let me know if you want to **accompany** me to my hometown.

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.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish
synonym: element, component

(1) secret **ingredients**, (2) compound the **ingredients**
Greed is the primary **ingredient** in the making of criminals.

origin

n. the first existence or beginning of something
synonym: root, source, ancestor

(1) **origin** of information, (2) racial **origin**
There are various hypotheses concerning the **origin** of life.

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.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations
The scientist conducted a study that provided **specific** details about the species' behavior.

rocky

adj. full of or abounding in rocks; of, relating to, or made of rock

synonym: stony, boulder-strewn, rough

(1) **rocky** terrain, (2) **rocky** relationship

The **rocky** road made it difficult to drive on.

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.

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.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

synonym: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

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**.

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.

composition

n. the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone

synonym : creating, formatting, arrangement

(1) age **composition** of the population, (2) the piano passages in the **composition**

Their innovative concepts were consistent across their bodies of **composition**.

intuitive

adj. obtained through feelings rather than facts or proof

synonym : involuntary, instinctive, innate

(1) **intuitive** eating, (2) **intuitive** judgment

I had an **intuitive** feeling that I might be pregnant.

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.

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.

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.

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.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

cyanide

n. a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison

synonym: nitrile, poison, toxin

(1) **cyanide** poisoning, (2) hydrogen **cyanide**

The use of **cyanide** as a chemical weapon is prohibited under international law.

advance

v. to go or move forward; to develop in a positive way

synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

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.

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.

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.

unfortunately

adv. by bad luck; unluckily

synonym : regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

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.

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**.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym: record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

interstellar

adj. relating to or located in the space between stars

synonym: galactic, cosmic, intergalactic

(1) **interstellar** communication, (2) **interstellar** space

The **interstellar** medium comprises gas, dust, and cosmic rays that fill the space between stars.

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.

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

abundant

adj. present in great quantity

synonym : ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water

The country has **abundant** oil and natural gas resources.

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.

robust

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

synonym : healthy, strong, booming

(1) **robust** growth, (2) a **robust** appetite

The experiment yielded **robust** results that support his theory.

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.

survive

v. to live or exist despite a dangerous event or period

synonym : endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash

These birds can only **survive** in temperate climates.

fragile

adj. delicate or easily broken or damaged

synonym : delicate, brittle, breakable

(1) politically **fragile** nation, (2) **fragile** ecosystem

The vase was made of **fragile** ceramic and easily broke when it was dropped.

vicinity

n. the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region

synonym : proximity, nearness, locality

(1) immediate **vicinity**, (2) city and its **vicinity**

The area in the **vicinity** of the mall is known for its heavy traffic congestion.

pixel

n. the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

synonym : dot, point, picture element

(1) **pixel** density, (2) color **pixels**

The computer screen comprises thousands of tiny **pixels** that create the overall picture.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

emission

n. the act of production or sending out gas, heat, light, etc.

synonym : emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

light-year

n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

(1) **light-year** distance, (2) billions of **light-years**

Proxima Centauri is the closest star to Earth, located about 4.24 **light-years** away.

elusive

adj. difficult to find, define, achieve, or remember

synonym: mysterious, ambiguous, inapproachable

(1) an **elusive** criminal, (2) track down an **elusive** fact

The physicist who found the **elusive** particle won the Nobel Prize.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

analogous

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

synonym: similar, comparable, equivalent

(1) **analogous** fashion, (2) entirely **analogous**

The human heart is **analogous** to a pump in a plumbing system.

cypress

n. a tall, conical-shaped evergreen tree with small, needle-like leaves and small cones, often used in landscaping and as ornamental trees

synonym: evergreen, conifer

(1) **cypress** swamp, (2) **cypress** wood

The **cypress** trees provide a picturesque backdrop for the lake.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

hypothesis

n. a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

synonym: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**
This evidence supports the big-bang **hypothesis**.

import

v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;

synonym: bring, spell

(1) **import** goods, (2) **import** a style sheet

The company **imports** raw materials from other countries to manufacture its products.

resolve

v. to find a suitable answer to the problems or difficulty

synonym: decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error

This company **resolves** its battery problem completely.

strip

v. to remove the surface from something; (noun) a sizeable narrow piece of something such as paper, metal, cloth, etc., or area of land, sea, etc.

synonym: deprive, undress, (noun) ribbon

(1) **strip** a tire off, (2) coast **strip**

The doctor advised him to **strip** down for a check.

overlap

v. to partially cover something by going beyond its edge

synonym: overlay, cover, bespread

(1) **overlap** one another, (2) **overlap** in many areas

There was no **overlap** between their proposals.

fertile

adj. capable of producing abundant vegetation or crops; intellectually productive

synonym: fruitful, productive, rich

(1) **fertile** ground, (2) **fertile** market

Herbs require **fertile** soil in a sunny, sheltered location.

degrade

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion

of others

synonym: demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

incorporate

v. to include something as a part of a larger entity

synonym: contain, integrate, amalgamate

(1) **incorporate** the current trends, (2) **incorporate** technology into daily life

We will attempt to **incorporate** some of your suggestions into our future strategy.

definitely

adv. without any question and beyond doubt; clearly

synonym: absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely**

The paper is **definitely** worth reading thoroughly.

tint

n. a shade or small amount of a color

synonym: hue, stain, pigment

(1) rosy **tint** lip, (2) **tint** color

This flower has milky white petals with a pink **tint** on its edges.

rescue

v. to save someone or something from a dangerous or difficult situation

synonym: save, extricate, retrieve

(1) **rescue** a dying dog, (2) **rescue** a company from bankruptcy

The fire department arrived just in time to **rescue** the family from the burning building.

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.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops
The customer on the Internet has to choose one from a formidable **array** of products.

consist

v. to be composed or made up of

synonym: lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts
This examination **consists** of five problems to solve.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom
As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

unison

n. occurring or corresponding together, simultaneously, or exactly; (music) two or more sounds or tones at the same pitch or in octaves

synonym: harmony, accord, unanimity

(1) singing in **unison**, (2) clap the hands in **unison**
They saluted in **unison** to the captain.

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.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

propose

v. to make a proposal, declare a plan for something

synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes

I want to **propose** a toast in honor of our longstanding relationship.

disclose

v. to make something, such as secret or new information, known publicly

synonym: declare, reveal, uncover

(1) **disclose** a secret, (2) **disclose** a vulnerability

The curtain rose to **disclose** a fantastic set.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

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.

Session 2: Spelling

- | | |
|-----------------------------------|--|
| 1. theory of the un_____se | <i>n.</i> everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy |
| 2. small mo_____les | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds |
| 3. de_____yed evidence | <i>v.</i> to ruin or damage severely or completely; to eradicate or eliminate completely |
| 4. ov_____p one another | <i>v.</i> to partially cover something by going beyond its edge |
| 5. industry-sp_____ic regulations | <i>adj.</i> clearly defined or particular to a certain thing or situation; distinct, explicit, and precise |
| 6. immediate vi_____ty | <i>n.</i> the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region |
| 7. d__k space | <i>n.</i> a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music |
| 8. de_____p a skill | <i>v.</i> to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created |

ANSWERS: 1. universe, 2. molecule, 3. destroy, 4. overlap, 5. specific, 6. vicinity, 7. disk, 8. develop

9. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
10. or___n of information *n.* the first existence or beginning of something
11. even more unf_____ely *adv.* by bad luck; unluckily
12. co_____t only in knowing facts *v.* to be composed or made up of
13. ar__e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
14. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
15. ro___t growth *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
16. st__p a tire off *v.* to remove the surface from something; (noun) a sizeable narrow piece of something such as paper, metal, cloth, etc., or area of land, sea, etc.
17. cy_____s swamp *n.* a tall, conical-shaped evergreen tree with small, needle-like leaves and small cones, often used in landscaping and as ornamental trees
18. clap the hands in un___n *n.* occurring or corresponding together, simultaneously, or exactly; (music) two or more sounds or tones at the same pitch or in octaves

ANSWERS: 9. zoom, 10. origin, 11. unfortunately, 12. consist, 13. argue, 14. ingredient, 15. robust, 16. strip, 17. cypress, 18. unison

19. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
20. cy____s wood *n.* a tall, conical-shaped evergreen tree with small, needle-like leaves and small cones, often used in landscaping and as ornamental trees
21. 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
22. the ch____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
23. lig____ar distance *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
24. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
25. re____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
26. a private ind____al *n.* a single person or thing, as distinct from a group
27. elliptic ga___y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 19. specific, 20. cypress, 21. astronomy, 22. chemistry, 23. light-year, 24. galaxy, 25. represent, 26. individual, 27. galaxy

28. im___t goods *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;
29. ar___e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
30. as_____le your colleagues *v.* to collect in one place as a single group
31. 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
32. di_____se a secret *v.* to make something, such as secret or new information, known publicly
33. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
34. color pi___ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
35. say def_____ly *adv.* without any question and beyond doubt; clearly
36. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
37. singing in un___n *n.* occurring or corresponding together, simultaneously, or exactly; (music) two or more sounds or tones at the same pitch or in octaves

ANSWERS: 28. import, 29. argue, 30. assemble, 31. distance, 32. disclose, 33. chemistry, 34. pixel, 35. definitely, 36. define, 37. unison

38. co____t mainly of cells *v.* to be composed or made up of
39. 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
40. di____se a vulnerability *v.* to make something, such as secret or new information, known publicly
41. co____ve of an idea *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
42. cy____e poisoning *n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison
43. pr____e the amendment *v.* to make a proposal, declare a plan for something
44. the atmospheric tem____re *n.* the degree of hotness or coldness of a thing or place
45. inc____te the current trends *v.* to include something as a part of a larger entity
46. def____ly become a problem *adv.* without any question and beyond doubt; clearly
47. 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
48. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

ANSWERS: 38. consist, 39. planet, 40. disclose, 41. conceive, 42. cyanide, 43. propose, 44. temperature, 45. incorporate, 46. definitely, 47. atmosphere, 48. disk

49. an_____us fashion *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way
50. a ch_____al compound *adj.* relating to or connected with chemistry;
51. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
52. ro__y terrain *adj.* full of or abounding in rocks; of, relating to, or made of rock
53. ready to co_____se *v.* to fall down or give way suddenly, often after breaking apart
54. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
55. ov_____p in many areas *v.* to partially cover something by going beyond its edge
56. in_____ve eating *adj.* obtained through feelings rather than facts or proof
57. fe_____e market *adj.* capable of producing abundant vegetation or crops; intellectually productive
58. city and its vi_____ty *n.* the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region
59. 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
60. 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: 49. analogous, 50. chemical, 51. opposition, 52. rocky, 53. collapse, 54. amazing, 55. overlap, 56. intuitive, 57. fertile, 58. vicinity, 59. explore, 60. medium

61. t__t color *n.* a shade or small amount of a color
62. re___e a dying dog *v.* to save someone or something from a dangerous or difficult situation
63. 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
64. ad_____e the technology *v.* to go or move forward; to develop in a positive way
65. int_____lar communication *adj.* relating to or located in the space between stars
66. test my hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
67. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
68. a bold hyp_____is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
69. live an ab_____nt life *adj.* present in great quantity
70. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
71. an ab_____nt supply of water *adj.* present in great quantity
72. fr_____e ecosystem *adj.* delicate or easily broken or damaged
73. hydrogen cy_____e *n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison

ANSWERS: 61. tint, 62. rescue, 63. atmosphere, 64. advance, 65. interstellar, 66. hypothesis, 67. telescope, 68. hypothesis, 69. abundant, 70. molecule, 71. abundant, 72. fragile, 73. cyanide

74. a two-dimensional ar__y *n.* a large group or collection of things or people, especially one that is impressive or attractive
75. in_____ve judgment *adj.* obtained through feelings rather than facts or proof
76. heavy hy_____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
77. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
78. 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
79. ro__y relationship *adj.* full of or abounding in rocks; of, relating to, or made of rock
80. toxic ch_____als *adj.* relating to or connected with chemistry;
81. 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
82. politically fr_____e nation *adj.* delicate or easily broken or damaged
83. 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

ANSWERS: 74. array, 75. intuitive, 76. hydrogen, 77. represent, 78. planet, 79. rocky, 80. chemical, 81. discovery, 82. fragile, 83. organic

84. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
85. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
86. an el_____e criminal *adj.* difficult to find, define, achieve, or remember
87. coast st__p *v.* to remove the surface from something; (noun) a sizeable narrow piece of something such as paper, metal, cloth, etc., or area of land, sea, etc.
88. 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
89. 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
90. ob___s over her weight *v.* to fill the mind of someone continually so that one can't think of anything else
91. 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
92. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air

ANSWERS: 84. resolve, 85. incredibly, 86. elusive, 87. strip, 88. temperate, 89. universe, 90. obsess, 91. biomolecule, 92. zoom

93. track down an el_____e fact *adj.* difficult to find, define, achieve, or remember
94. 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
95. co_____ve a child *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
96. the stock market co_____sed *v.* to fall down or give way suddenly, often after breaking apart
97. hy_____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
98. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
99. he is ob___sed with the fear *v.* to fill the mind of someone continually so that one can't think of anything else
100. su_____e a blizzard *v.* to live or exist despite a dangerous event or period
101. ac_____ny the book *v.* to go somewhere or travel with someone or something
102. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
103. re___e a company from bankruptcy *v.* to save someone or something from a dangerous or difficult situation
104. entirely an_____us *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way

ANSWERS: 93. elusive, 94. astronomy, 95. conceive, 96. collapse, 97. hydrogen, 98. array, 99. obsess, 100. survive, 101. accompany, 102. ingredient, 103. rescue, 104. analogous

105. 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
106. colorless li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
107. su_____e a plane crash *v.* to live or exist despite a dangerous event or period
108. pr_____e changes *v.* to make a proposal, declare a plan for something
109. pi__l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
110. age com_____on of the population *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
111. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
112. hazardous li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
113. im____t a style sheet *v.* to bring goods or services into a country from another country; to transfer electronic data into a database or document;

ANSWERS: 105. discovery, 106. liquid, 107. survive, 108. propose, 109. pixel, 110. composition, 111. amazing, 112. liquid, 113. import

114. int_____lar space *adj.* relating to or located in the space between stars
115. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
116. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
117. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
118. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
119. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
120. 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
121. billions of lig_____ars *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
122. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely

ANSWERS: 114. interstellar, 115. emission, 116. telescope, 117. incredibly, 118. assemble, 119. develop, 120. temperate, 121. light-year, 122. destroy

123. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
124. the piano passages in the com_____on *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
125. inc_____te technology into daily life *v.* to include something as a part of a larger entity
126. fe_____e ground *adj.* capable of producing abundant vegetation or crops; intellectually productive
127. racial or____n *n.* the first existence or beginning of something
128. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
129. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
130. unf_____ely caught in a shower *adv.* by bad luck; unluckily
131. 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
132. 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
133. de____t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 123. temperature, 124. composition, 125. incorporate, 126. fertile, 127. origin, 128. resolve, 129. opposition, 130. unfortunately, 131. explore, 132. organic, 133. detect

134. de_____e his public image *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
135. de_____e environmental quality *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
136. ind_____al freedom *n.* a single person or thing, as distinct from a group
137. a ro____t appetite *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
138. 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
139. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
140. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
141. de____e a word *v.* to state or explain precisely the nature, scope, or meaning of something
142. ac_____ny a chicken dish *v.* to go somewhere or travel with someone or something

ANSWERS: 134. degrade, 135. degrade, 136. individual, 137. robust, 138. distance, 139. statistics, 140. statistics, 141. define, 142. accompany

143. 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
144. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
145. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
146. 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
147. de_____t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
148. rosy t__t lip *n.* a shade or small amount of a color

ANSWERS: 143. biomolecule, 144. emission, 145. advance, 146. medium, 147. detect, 148. tint

Session 3: Fill in the Blanks

1. The human heart is _____ to a pump in a plumbing system.
adj. similar or equivalent in some respects, typically as a result of functioning in a similar way
2. This flower has milky white petals with a pink _____ on its edges.
n. a shade or small amount of a color
3. Greed is the primary _____ in the making of criminals.
n. one of the things used to make something, especially one of the foods used to make a particular dish
4. 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
5. 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
6. These birds can only _____ in temperate climates.
v. to live or exist despite a dangerous event or period
7. The president began to _____ an army.
v. to collect in one place as a single group
8. The vase was made of _____ ceramic and easily broke when it was dropped.
adj. delicate or easily broken or damaged

ANSWERS: 1. analogous, 2. tint, 3. ingredient, 4. telescope, 5. organic, 6. survive, 7. assemble, 8. fragile

9. Their innovative concepts were consistent across their bodies of _____.
- n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
10. This company _____ its battery problem completely.
- v.* to find a suitable answer to the problems or difficulty
11. This evidence supports the big-bang _____.
- n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
12. He is familiar with _____ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
13. 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
14. The couple began to _____ over which restaurant to go to for dinner.
- v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
15. The use of _____ as a chemical weapon is prohibited under international law.
- n.* a highly toxic compound consisting of a carbon atom triple-bonded to a nitrogen atom, most often encountered as hydrogen cyanide or one of its salts, often used in industrial processes, insecticides, and as a lethal poison
16. 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

ANSWERS: 9. composition, 10. resolves, 11. hypothesis, 12. chemistry, 13. planet, 14. argue, 15. cyanide, 16. distance

17. We must _____ a new system to streamline our workflow and increase efficiency.

- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

18. The area in the _____ of the mall is known for its heavy traffic congestion.

- n.* the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region

19. I had an _____ feeling that I might be pregnant.

- adj.* obtained through feelings rather than facts or proof

20. 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

21. The computer screen comprises thousands of tiny _____ that create the overall picture.

- n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

22. The country has _____ oil and natural gas resources.

- adj.* present in great quantity

23. The Milky Way _____ has numerous water-bearing planets.

- n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 17. develop, 18. vicinity, 19. intuitive, 20. temperate, 21. pixels, 22. abundant, 23. galaxy

24. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way
25. I want to _____ a toast in honor of our longstanding relationship.
v. to make a proposal, declare a plan for something
26. The _____ demonstrate that poverty and unemployment are genuine problems.
n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
27. The _____ party strongly disagreed with the government's proposed legislation.
n. the act of disagreeing or resisting; the state of strong disagreement
28. 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
29. The _____ trees provide a picturesque backdrop for the lake.
n. a tall, conical-shaped evergreen tree with small, needle-like leaves and small cones, often used in landscaping and as ornamental trees
30. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
31. The fire department arrived just in time to _____ the family from the burning building.
v. to save someone or something from a dangerous or difficult situation

ANSWERS: 24. advance, 25. propose, 26. statistics, 27. opposition, 28. atmosphere, 29. cypress, 30. temperatures, 31. rescue

32. To advance this discussion, we must _____ "success" rigorously.
- v. to state or explain precisely the nature, scope, or meaning of something
33. 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
34. You should not _____ yourself by allowing them to use you.
- v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
35. Herbs require _____ soil in a sunny, sheltered location.
- adj. capable of producing abundant vegetation or crops; intellectually productive
36. The treatments were done but, _____ were unsuccessful.
- adv. by bad luck; unluckily
37. Proxima Centauri is the closest star to Earth, located about 4.24 _____ away.
- n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
38. The curtain rose to _____ a fantastic set.
- v. to make something, such as secret or new information, known publicly
39. He's utterly _____ with his promotion.
- v. to fill the mind of someone continually so that one can't think of anything else

ANSWERS: 32. define, 33. discovery, 34. degrade, 35. fertile, 36. unfortunately, 37. light-years, 38. disclose, 39. obsessed

40. The _____ medium comprises gas, dust, and cosmic rays that fill the space between stars.

adj. relating to or located in the space between stars

41. This examination _____ of five problems to solve.

v. to be composed or made up of

42. 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

43. 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

44. Several cities are experiencing _____ high unemployment rates.

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

45. Please let me know if you want to _____ me to my hometown.

v. to go somewhere or travel with someone or something

46. 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

47. The roof finally _____ after three days and three nights of heavy snowfall.

v. to fall down or give way suddenly, often after breaking apart

48. The golfer recorded an _____ distance.

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

ANSWERS: 40. interstellar, 41. consists, 42. liquid, 43. explore, 44. incredibly, 45. accompany, 46. molecule, 47. collapsed, 48. amazing

49. The physicist who found the _____ particle won the Nobel Prize.

adj. difficult to find, define, achieve, or remember

50. The doctor advised him to _____ down for a check.

v. to remove the surface from something; (noun) a sizeable narrow piece of something such as paper, metal, cloth, etc., or area of land, sea, etc.

51. The firm has grown into a large _____ manufacturing.

adj. relating to or connected with chemistry;

52. The _____ and the oxygen react and then form water.

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

53. They saluted in _____ to the captain.

n. occurring or corresponding together, simultaneously, or exactly; (music) two or more sounds or tones at the same pitch or in octaves

54. There are five distinct _____ at five unique wavelengths.

n. the act of production or sending out gas, heat, light, etc.

55. 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

56. 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

ANSWERS: 49. elusive, 50. strip, 51. chemical, 52. hydrogen, 53. unison, 54. emissions, 55. universe, 56. medium

57. The security camera has _____ four intruders.

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

58. We will attempt to _____ some of your suggestions into our future strategy.

v. to include something as a part of a larger entity

59. The computer's hard _____ was full, so she had to delete some files.

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

60. The _____ road made it difficult to drive on.

adj. full of or abounding in rocks; of, relating to, or made of rock

61. I can't _____ he'd want to harm us.

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

62. 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

63. The experiment yielded _____ results that support his theory.

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

64. There are various hypotheses concerning the _____ of life.

n. the first existence or beginning of something

ANSWERS: 57. detected, 58. incorporate, 59. disk, 60. rocky, 61. conceive, 62. astronomy, 63. robust, 64. origin

65. The building was _____ in the fire and had to be rebuilt.
v. to ruin or damage severely or completely; to eradicate or eliminate completely
66. He _____ back in time to the soccer game.
v. to move along very quickly; (noun) the act of rising upward into the air
67. The customer on the Internet has to choose one from a formidable _____ of products.
n. a large group or collection of things or people, especially one that is impressive or attractive
68. The paper is _____ worth reading thoroughly.
adv. without any question and beyond doubt; clearly
69. 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
70. The company _____ raw materials from other countries to manufacture its products.
v. to bring goods or services into a country from another country; to transfer electronic data into a database or document;
71. There was no _____ between their proposals.
v. to partially cover something by going beyond its edge
72. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group

ANSWERS: 65. destroyed, 66. zoomed, 67. array, 68. definitely, 69. biomolecule, 70. imports, 71. overlap, 72. individual,

73. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

74. We elected him to _____ us at the international conference.

v. to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 73. specific, 74. represent