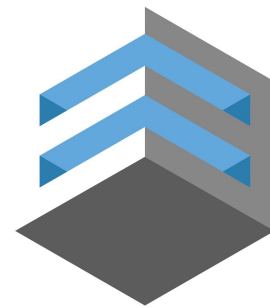


Englist.me



Vocabulary Builder Reference from...

Jessie Christiansen: What the discovery of exoplanets reveals about the universe | TED Talk
https://www.ted.com/talks/jessie_christiansen_what_the_discovery_of_exoplanets_reveals_about_the_universe

All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

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.

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.

exoplanet

n. a planet that orbits a star outside of the solar system

(1) the closest **exoplanet** to Earth, (2) **exoplanet** mission

The **exoplanet** Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

milestone

n. an important event or stage in the development or progress of something; a stone by the side of a road to show distances

synonym : landmark, turning point, touchstone

(1) key **milestone**, (2) **milestone** event

Reaching the **milestone** of 1000 subscribers on her SNS channel was a major achievement for her.

exploration

n. the activity of searching and finding out about something through a place

synonym: inquiry, quest, investigation

(1) future of space **exploration**, (2) an Arctic **exploration**

He called for a careful **exploration** of the consequences.

imaginary

adj. existing only in someone's mind

synonym: fictional, ideal, fantastical

(1) **imaginary** number, (2) **imaginary** pregnancy

Little children tend to have **imaginary** friends.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

grad

n. (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university

synonym: graduate, alumnus, alumni

(1) high school **grad**, (2) **grad** student

He was proud to be a **grad** of the prestigious university.

radical

adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions

synonym: extreme, revolutionary

(1) a **radical** flaw in the plan, (2) a **radical** cure

The government established by the coup was more **radical** than before.

romantic

adj. of or relating to love or a sexual relationship

synonym: idealistic, unrealistic, amatory

(1) **romantic** movies, (2) **romantic** breakup

It was his first **romantic** love.

gaze

v. to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else

synonym: stare, gawk, look

(1) **gaze** steadily at his face, (2) **gaze** absently out a window

The youngster was **gazed** at by the beast.

intent

n. a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something

synonym: purpose, aim, goal

(1) the **intent** of a question, (2) **intent** gaze

The designer's **intent** was to create a minimalist aesthetic for the interior of the building.

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.

ponder

v. to think deeply or carefully about something

synonym: think about, consider, reflect on

(1) **ponder** divine matters, (2) **ponder** life's meaning

She sat quietly, **pondering** the difficult decision.

gorgeous

adj. wonderful and attractive

synonym: beautiful, stunning, attractive

(1) a **gorgeous** meal, (2) **gorgeous** sunset

She wore a **gorgeous** dress to the party, which everyone admired.

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.

dip

v. to put something into a liquid for a short time and take it out again

synonym : dunk, dive, plunge

(1) **dip** a pen in ink, (2) **dip** a chip in the sauce

Please **dip** up a bucketful of water from the well.

orbit

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

synonym : path, course, trajectory

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

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

decimal

adj. based on or counted in the number 10

synonym : base-10, denary, ten-based

(1) **decimal** system, (2) an infinite **decimal**

The **decimal** point separates the whole number from the fractional part.

grand

adj. important and large in size, scope, or extent

synonym : impressive, great, ambitious

(1) a **grand** meal, (2) **grand** bargain

This year's **grand** gathering will be held in Canada.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym : experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

instrument

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

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

silicon

n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

Silicon is the second most abundant element on earth after oxygen.

valley

n. a long depression on the surface of the land, which typically contains a river

synonym: canyon, gorge, dale

(1) **valley** bottom, (2) basin-shaped **valley**

The **valley** had received a mild snowfall the previous week.

generation

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

synonym: cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

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.

stellar

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

synonym : starry, celestial, astral

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

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

precis

v. to make a summary of something, such as a text or speech; (noun) a short form of the main points of an argument or theory

synonym : summarize, abstract, digest

(1) **precis** the contents of a book, (2) a **precis** of recent advances in AI

He **precis** this lengthy report in two pages.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

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.

categorize

v. to put people or things into groups according to their features, types, etc.

synonym : classify, pigeonhole, sort

(1) **categorize** the image, (2) **categorize** the cause of failure

The biologist **categorized** the viruses into four groups.

trend

n. a general direction in which something is changing or developing

synonym : direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television
The oil price continued their downward **trend**.

germ

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

synonym : bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment
The **germ** of his idea came from watching birds flying in flocks.

beagle

n. a small dog with a smooth coat, long ears, and a strong sense of smell, used for hunting hares

synonym : hound, dog, pup

(1) legal **beagle**, (2) **beagle** nose

His pet **beagle** sniffed at the ground, following the rabbit's trail.

breed

v. to keep animals for producing offspring in a regulated manner

synonym : raise, multiply, reproduce

(1) **breed** horses, (2) **breed** suspicion

This animal **breeds** in northern latitudes.

feat

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

synonym : achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

demographic

n. a statistic characterizing that describes people or groups of people based on their age, sex, income, etc.

(1) **demographic** analyses, (2) **demographic** policy

Several **demographic** indicators correlate with care

admission.

Jupiter

n. the fifth planet from the sun and the largest planet in the solar system, with a system of sixteen moons; the ancient Roman king of the gods, identified with the Greek god Zeus

(1) sub- **Jupiter** planet, (2) **Jupiter's** strong gravity

The Juno spacecraft is currently in orbit around **Jupiter**, studying the planet's atmosphere and magnetic field.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

evaporate

v. to turn a liquid into a gas; to become less intense and disappear gradually

synonym: vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight

The sun will **evaporate** the mist.

disintegrate

v. break or cause to break into small fragments

synonym: shatter, crumble, break down

(1) **disintegrate** in an explosion, (2) **disintegrate** over time

The vase **disintegrated** into pieces when it fell to the ground.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

clockwork

n. a mechanism in which a series of gears, springs and other mechanical elements are used to power a device, especially a clock

synonym: mechanism, movement, gears

(1) run like **clockwork**, (2) **clockwork** precision

The **clockwork** mechanism in the grandfather clock needed to be wound up every week.

puffy

adj. swollen or distended, especially with air or gas;

synonym: swollen, distended, inflated

(1) **puffy** off-shore winds, (2) **puffy** eyes

His cheeks looked **puffy** after he overate junk food.

dense

adj. containing a large number of people or something with little space between them

synonym: heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

menagerie

n. a collection of wild animals, especially exotic ones, kept for display

synonym: collection, assortment, group

(1) a large **menagerie**, (2) **menagerie** keeper

The circus had a **menagerie** of animals, including elephants, lions, and monkeys.

corral

n. a pen or enclosure for livestock, especially cattle or horses; an area surrounded by a fence

synonym: pen, enclosure, yard

(1) **corral** fence, (2) enclose in a **corral**

The farmer used a high **corral** to keep the cattle from wandering off.

nursery

n. a place where babies and young children are cared for while their parents are at work; a place where plants are grown and nurtured, especially for commercial purposes

synonym: playroom, greenhouse, conservatory

(1) day **nursery**, (2) **nursery** school

I work at the breeding **nursery**, where we grow and sell a variety of plants.

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace
On three sides, mountains **surround** the settlement.

timeline

n. a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom

synonym: agenda, timetable, chronology

(1) **timeline** of science history, (2) lay out a **timeline**
He imposed a **timeline** on the project.

trigger

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

synonym: activate, spark, drive

(1) **trigger** a biochemical response, (2) **trigger** inflation
The incident **triggered** a political controversy.

diffuse

adj. spread out widely; not concentrated in one place

synonym: spread, scatter

(1) **diffuse** bleeding, (2) **diffuse** cloud

Direct lighting is preferable to **diffuse** lighting when reading.

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.

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

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

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

chaos

n. a state of complete confusion or disorder, often characterized by a lack of predictability or control

synonym: disorder, turmoil, confusion

(1) **chaos** theory, (2) midst of **chaos**

The conference room was in **chaos** as everyone tried to speak at once.

turmoil

n. a state of great disturbance, confusion, or uncertainty, often marked by intense activity or strong emotions

synonym: chaos, confusion, disorder

(1) political **turmoil**, (2) the **turmoil** of the war

The company experienced financial **turmoil** after the CEO was arrested.

pebble

n. a small, smooth, rounded rock, especially one worn by the action of water

synonym: rock, stone, cobble

(1) drop a **pebble** into a pond, (2) **pebble** pathway

She picked up a **pebble** from the beach and put it in her pocket as a souvenir.

boulder

n. a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion

synonym: rock, stone, clump

(1) **boulder** field, (2) lava **boulder**

The hikers had to climb over a **boulder** that was blocking their path.

planetesimal

n. a small celestial body, typically one a few kilometers in size, that orbits a star and is composed of rock and metal, and that is thought to be a building block of planets

synonym: protoplanet, planetismal, planetoid

(1) icy **planetesimal**, (2) **planetesimal** collision

The **planetesimal** theory suggests planets formed from the collision and aggregation of smaller bodies.

intense

adj. (especially of a feeling) very strong; extremely sharp or severe

synonym : extreme, fierce, harsh

(1) **intense** heat, (2) develop **intense** itching

That statement by the prime minister drew **intense** international criticism.

bombardment

n. a continuous attack with bombs or other missiles

synonym : attack, shelling, strafing

(1) aerial **bombardment**, (2) **bombardment** raid

The city was subjected to heavy **bombardment** during the war.

settle

v. to reach an agreement of disagreement

synonym : inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town

I don't want to **settle** for second best.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

sandy

adj. covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown

synonym : arenaceous, sandlike

(1) miles of **sandy** beaches, (2) **sandy** hair

The rain rapidly soaked into the **sandy** soil.

shore

n. the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid

synonym : coast, seaside, beach

(1) a sandy **shore**, (2) **shore** up demand

The waves are beating against the **shore**.

biomarker

n. a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

synonym: indicator, measure, signature

(1) diabetes **biomarker**, (2) **biomarker** discovery

The **biomarker** test showed that the patient was responding well to the treatment.

Session 2: Spelling

1. the tr__d away from television *n.* a general direction in which something is changing or developing
2. sa__y hair *adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown
3. pe___e pathway *n.* a small, smooth, rounded rock, especially one worn by the action of water
4. a go____us meal *adj.* wonderful and attractive
5. the tu____l of the war *n.* a state of great disturbance, confusion, or uncertainty, often marked by intense activity or strong emotions
6. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
7. su____nd a town *v.* to be all around something or somebody
8. pr___s the contents of a book *v.* to make a summary of something, such as a text or speech; (noun) a short form of the main points of an argument or theory
9. so__d ally *adj.* hard or firm; characterized by good substantial quality
10. dis_____ate over time *v.* break or cause to break into small fragments

ANSWERS: 1. trend, 2. sandy, 3. pebble, 4. gorgeous, 5. turmoil, 6. germ, 7. surround, 8. precis, 9. solid, 10. disintegrate

- | | |
|--|--|
| 11. Ju____r's strong gravity | <i>n.</i> the fifth planet from the sun and the largest planet in the solar system, with a system of sixteen moons; the ancient Roman king of the gods, identified with the Greek god Zeus |
| 12. a binocular te_____pe | <i>n.</i> a device like a tube in shape containing lenses used to magnify and observe distant objects |
| 13. a ra_____l flaw in the plan | <i>adj.</i> relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions |
| 14. basin-shaped va_____y | <i>n.</i> a long depression on the surface of the land, which typically contains a river |
| 15. the closest ex_____et to Earth | <i>n.</i> a planet that orbits a star outside of the solar system |
| 16. tr_____r inflation | <i>v.</i> to make something happen suddenly; to cause something such as a device, machine, etc. to function |
| 17. pu__y off-shore winds | <i>adj.</i> swollen or distended, especially with air or gas; |
| 18. a stone wall su_____nds the palace | <i>v.</i> to be all around something or somebody |
| 19. ro_____ic movies | <i>adj.</i> of or relating to love or a sexual relationship |
| 20. ex_____e our options | <i>v.</i> to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it |
| 21. in_____e heat | <i>adj.</i> (especially of a feeling) very strong; extremely sharp or severe |

ANSWERS: 11. Jupiter, 12. telescope, 13. radical, 14. valley, 15. exoplanet, 16. trigger, 17. puffy, 18. surround, 19. romantic, 20. explore, 21. intense

22. sub-Ju____r planet *n.* the fifth planet from the sun and the largest planet in the solar system, with a system of sixteen moons; the ancient Roman king of the gods, identified with the Greek god Zeus
23. 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
24. musical ins____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
25. midst of ch__s *n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control
26. cat____ze the cause of failure *v.* to put people or things into groups according to their features, types, etc.
27. series of exp____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
28. de__e forests *adj.* containing a large number of people or something with little space between them
29. an international tr__d *n.* a general direction in which something is changing or developing
30. nutrient-de__e foods *adj.* containing a large number of people or something with little space between them

ANSWERS: 22. Jupiter, 23. explore, 24. instrument, 25. chaos, 26. categorize, 27. experiment, 28. dense, 29. trend, 30. dense

31. at inc_____le speed *adj.* unbelievable; enormous
32. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
33. day nu_____y *n.* a place where babies and young children are cared for while their parents are at work; a place where plants are grown and nurtured, especially for commercial purposes
34. the stock market co_____sed *v.* to fall down or give way suddenly, often after breaking apart
35. im_____ry number *adj.* existing only in someone's mind
36. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
37. develop in_____e itching *adj.* (especially of a feeling) very strong; extremely sharp or severe
38. 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
39. va____y bottom *n.* a long depression on the surface of the land, which typically contains a river
40. ch__s theory *n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control
41. h__t a job *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
42. gr__d bargain *adj.* important and large in size, scope, or extent

ANSWERS: 31. incredible, 32. eventually, 33. nursery, 34. collapse, 35. imaginary, 36. experiment, 37. intense, 38. universe, 39. valley, 40. chaos, 41. hunt, 42. grand

43. miles of sa__y beaches *adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown
44. inc_____le amount *adj.* unbelievable; enormous
45. ev_____te the water *v.* to turn a liquid into a gas; to become less intense and disappear gradually
46. political tu_____l *n.* a state of great disturbance, confusion, or uncertainty, often marked by intense activity or strong emotions
47. an infinite de_____l *adj.* based on or counted in the number 10
48. pu__y eyes *adj.* swollen or distended, especially with air or gas;
49. bo_____r field *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
50. st_____r performance *adj.* excellent; relating to or resembling a star, especially in quality or attractiveness
51. g__d student *n.* (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university
52. ro_____ic breakup *adj.* of or relating to love or a sexual relationship
53. di_____e cloud *adj.* spread out widely; not concentrated in one place
54. the in___t of a question *n.* a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something

ANSWERS: 43. sandy, 44. incredible, 45. evaporate, 46. turmoil, 47. decimal, 48. puffy, 49. boulder, 50. stellar, 51. grad, 52. romantic, 53. diffuse, 54. intent

55. de____l system *adj.* based on or counted in the number 10
56. 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
57. g__e absently out a window *v.* to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
58. a st____r system *adj.* excellent; relating to or resembling a star, especially in quality or attractiveness
59. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
60. si____n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
61. ready to co____se *v.* to fall down or give way suddenly, often after breaking apart
62. 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
63. key mi____ne *n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances

ANSWERS: 55. decimal, 56. planet, 57. gaze, 58. stellar, 59. feat, 60. silicon, 61. collapse, 62. planet, 63. milestone

64. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
65. br__d suspicion *v.* to keep animals for producing offspring in a regulated manner
66. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
67. a pr___s of recent advances in AI *v.* to make a summary of something, such as a text or speech; (noun) a short form of the main points of an argument or theory
68. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
69. nu_____y school *n.* a place where babies and young children are cared for while their parents are at work; a place where plants are grown and nurtured, especially for commercial purposes
70. a large me_____ie *n.* a collection of wild animals, especially exotic ones, kept for display
71. lava bo_____r *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
72. im_____ry pregnancy *adj.* existing only in someone's mind
73. di_____e bleeding *adj.* spread out widely; not concentrated in one place

ANSWERS: 64. instrument, 65. breed, 66. galaxy, 67. precis, 68. generation, 69. nursery, 70. menagerie, 71. boulder, 72. imaginary, 73. diffuse

74. an Arctic exp_____on *n.* the activity of searching and finding out about something through a place
75. se___e a dispute *v.* to reach an agreement of disagreement
76. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
77. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
78. cl_____rk precision *n.* a mechanism in which a series of gears, springs and other mechanical elements are used to power a device, especially a clock
79. cat_____ze the image *v.* to put people or things into groups according to their features, types, etc.
80. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
81. ex_____et mission *n.* a planet that orbits a star outside of the solar system
82. d_p a pen in ink *v.* to put something into a liquid for a short time and take it out again
83. pla_____mal collision *n.* a small celestial body, typically one a few kilometers in size, that orbits a star and is composed of rock and metal, and that is thought to be a building block of planets
84. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 74. exploration, 75. settle, 76. generation, 77. eventually, 78. clockwork, 79. categorize, 80. telescope, 81. exoplanet, 82. dip, 83. planetesimal, 84. cluster

85. lay out a ti____ne
n. a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom
86. fairly ty____l symptoms
adj. having the usual characteristics or traits of a specific group of things
87. ty____l leader
adj. having the usual characteristics or traits of a specific group of things
88. co____l fence
n. a pen or enclosure for livestock, especially cattle or horses; an area surrounded by a fence
89. a ra____l cure
adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions
90. bom____nt raid
n. a continuous attack with bombs or other missiles
91. a planetary or__t
n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
92. high school g__d
n. (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university
93. sh__e up demand
n. the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid
94. elliptic ga____y
n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 85. timeline, 86. typical, 87. typical, 88. corral, 89. radical, 90. bombardment, 91. orbit, 92. grad, 93. shore, 94. galaxy

95. h__t after knowledge *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
96. crystalline si____n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
97. dem____ic analyses *n.* a statistic characterizing that describes people or groups of people based on their age, sex, income, etc.
98. tr____rm an education system *v.* to change in outward structure or looks;
99. mi____ne event *n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances
100. bi____er discovery *n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention
101. in__t gaze *n.* a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
102. dem____ic policy *n.* a statistic characterizing that describes people or groups of people based on their age, sex, income, etc.
103. legal be___e *n.* a small dog with a smooth coat, long ears, and a strong sense of smell, used for hunting hares

ANSWERS: 95. hunt, 96. silicon, 97. demographic, 98. transform, 99. milestone, 100. biomarker, 101. intent, 102. demographic, 103. beagle

104. g__e steadily at his face *v.* to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
105. ti_____ne of science history *n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom
106. be___e nose *n.* a small dog with a smooth coat, long ears, and a strong sense of smell, used for hunting hares
107. the or__t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
108. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
109. d_p a chip in the sauce *v.* to put something into a liquid for a short time and take it out again
110. me_____ie keeper *n.* a collection of wild animals, especially exotic ones, kept for display
111. br__d horses *v.* to keep animals for producing offspring in a regulated manner
112. po___r life's meaning *v.* to think deeply or carefully about something
113. enclose in a co___l *n.* a pen or enclosure for livestock, especially cattle or horses; an area surrounded by a fence
114. a sandy sh__e *n.* the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid

ANSWERS: 104. gaze, 105. timeline, 106. beagle, 107. orbit, 108. feat, 109. dip, 110. menagerie, 111. breed, 112. ponder, 113. corral, 114. shore

115. 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
116. icy pla_____mal *n.* a small celestial body, typically one a few kilometers in size, that orbits a star and is composed of rock and metal, and that is thought to be a building block of planets
117. tr_____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
118. drop a pe___e into a pond *n.* a small, smooth, rounded rock, especially one worn by the action of water
119. future of space exp_____on *n.* the activity of searching and finding out about something through a place
120. a gr__d meal *adj.* important and large in size, scope, or extent
121. run like cl_____rk *n.* a mechanism in which a series of gears, springs and other mechanical elements are used to power a device, especially a clock
122. ev_____te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
123. dis_____ate in an explosion *v.* break or cause to break into small fragments
124. po___r divine matters *v.* to think deeply or carefully about something

ANSWERS: 115. universe, 116. planetesimal, 117. trigger, 118. pebble, 119. exploration, 120. grand, 121. clockwork, 122. evaporate, 123. disintegrate, 124. ponder

125. go____us sunset *adj.* wonderful and attractive
126. se___e down in the town *v.* to reach an agreement of disagreement
127. aerial bom_____nt *n.* a continuous attack with bombs or other missiles
128. tr_____rm heat into power *v.* to change in outward structure or looks;
129. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
130. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
131. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
132. diabetes bi_____er *n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

ANSWERS: 125. gorgeous, 126. settle, 127. bombardment, 128. transform, 129. germ, 130. cluster, 131. solid, 132. biomarker

Session 3: Fill in the Blanks

1. The vase _____ into pieces when it fell to the ground.
v. break or cause to break into small fragments
2. _____ is the second most abundant element on earth after oxygen.
n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
3. The _____ mechanism in the grandfather clock needed to be wound up every week.
n. a mechanism in which a series of gears, springs and other mechanical elements are used to power a device, especially a clock
4. That statement by the prime minister drew _____ international criticism.
adj. (especially of a feeling) very strong; extremely sharp or severe
5. He _____ this lengthy report in two pages.
v. to make a summary of something, such as a text or speech; (noun) a short form of the main points of an argument or theory
6. The conference room was in _____ as everyone tried to speak at once.
n. a state of complete confusion or disorder, often characterized by a lack of predictability or control
7. His pet _____ sniffed at the ground, following the rabbit's trail.
n. a small dog with a smooth coat, long ears, and a strong sense of smell, used for hunting hares

ANSWERS: 1. disintegrated, 2. Silicon, 3. clockwork, 4. intense, 5. precis, 6. chaos, 7. beagle

8. He called for a careful _____ of the consequences.
n. the activity of searching and finding out about something through a place
9. Several _____ indicators correlate with care admission.
n. a statistic characterizing that describes people or groups of people based on their age, sex, income, etc.
10. The _____ of water is called ice.
adj. hard or firm; characterized by good substantial quality
11. The biologist _____ the viruses into four groups.
v. to put people or things into groups according to their features, types, etc.
12. I don't want to _____ for second best.
v. to reach an agreement of disagreement
13. Please _____ up a bucketful of water from the well.
v. to put something into a liquid for a short time and take it out again
14. The designer's _____ was to create a minimalist aesthetic for the interior of the building.
n. a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
15. 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
16. This animal _____ in northern latitudes.
v. to keep animals for producing offspring in a regulated manner

ANSWERS: 8. exploration, 9. demographic, 10. solid-state, 11. categorized, 12. settle, 13. dip, 14. intent, 15. universe, 16. breeds

17. 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

18. Her response revealed _____ idiocy.

- adj.* unbelievable; enormous

19. He imposed a _____ on the project.

- n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom

20. The circus had a _____ of animals, including elephants, lions, and monkeys.

- n.* a collection of wild animals, especially exotic ones, kept for display

21. The entire mountain is covered in _____ rainforest.

- adj.* containing a large number of people or something with little space between them

22. The company experienced financial _____ after the CEO was arrested.

- n.* a state of great disturbance, confusion, or uncertainty, often marked by intense activity or strong emotions

23. His cheeks looked _____ after he overate junk food.

- adj.* swollen or distended, especially with air or gas;

24. I work at the breeding _____ where we grow and sell a variety of plants.

- n.* a place where babies and young children are cared for while their parents are at work; a place where plants are grown and nurtured, especially for commercial purposes

ANSWERS: 17. explore, 18. incredible, 19. timeline, 20. menagerie, 21. dense, 22. turmoil, 23. puffy, 24. nursery,

25. A _____ of grapes hung from the vine.

- n.* a group of similar things or people close together, often forming a distinct mass or unit

26. The city was subjected to heavy _____ during the war.

- n.* a continuous attack with bombs or other missiles

27. The _____ test showed that the patient was responding well to the treatment.

- n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

28. The incident _____ a political controversy.

- v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function

29. It was his first _____ love.

- adj.* of or relating to love or a sexual relationship

30. The rocket engine is used to put the satellite into _____.

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

31. The sun will _____ the mist.

- v.* to turn a liquid into a gas; to become less intense and disappear gradually

32. The _____ Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

- n.* a planet that orbits a star outside of the solar system

ANSWERS: 25. cluster, 26. bombardment, 27. biomarker, 28. triggered, 29. romantic, 30. orbit, 31. evaporate, 32. exoplanet

33. My father's death _____ my life completely.

v. to change in outward structure or looks;

34. The youngster was _____ at by the beast.

v. to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else

35. His _____ showed highly positive results.

n. the scientific test conducted to observe what happens and gain new knowledge

36. 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

37. The hikers had to climb over a _____ that was blocking their path.

n. a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion

38. 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

39. The _____ point separates the whole number from the fractional part.

adj. based on or counted in the number 10

40. The _____ had received a mild snowfall the previous week.

n. a long depression on the surface of the land, which typically contains a river

41. This electronic _____ is required to undergo periodic inspections to ensure precision.

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

ANSWERS: 33. transformed, 34. gazed, 35. experiments, 36. planet, 37. boulder, 38. galaxy, 39. decimal, 40. valley, 41. instrument

42. She wore a _____ dress to the party, which everyone admired.

adj. wonderful and attractive

43. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

44. 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

45. The waves are beating against the _____.

n. the land along the edge of a sea, lake, broad river, or other large body of water;
(verb) to support by placing against something solid or rigid

46. This year's _____ gathering will be held in Canada.

adj. important and large in size, scope, or extent

47. The rain rapidly soaked into the _____ soil.

adj. covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown

48. The _____ of his idea came from watching birds flying in flocks.

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

49. Reaching the _____ of 1000 subscribers on her SNS channel was a major achievement for her.

n. an important event or stage in the development or progress of something; a stone by the side of a road to show distances

ANSWERS: 42. gorgeous, 43. surround, 44. hunt, 45. shore, 46. grand, 47. sandy, 48. germ, 49. milestone

50. The government established by the coup was more _____ than before.

adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions

51. The younger _____ has different values and beliefs than the older one.

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

52. She received a _____ review from her boss, which boosted her confidence.

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

53. She sat quietly, _____ the difficult decision.

v. to think deeply or carefully about something

54. 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

55. This artwork is _____ of her work.

adj. having the usual characteristics or traits of a specific group of things

56. Little children tend to have _____ friends.

adj. existing only in someone's mind

57. Direct lighting is preferable to _____ lighting when reading.

adj. spread out widely; not concentrated in one place

58. She picked up a _____ from the beach and put it in her pocket as a souvenir.

n. a small, smooth, rounded rock, especially one worn by the action of water

ANSWERS: 50. radical, 51. generation, 52. stellar, 53. pondering, 54. telescope, 55. typical, 56. imaginary, 57. diffuse, 58. pebble

59. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
- n.* a notable or impressive achievement, especially one that requires great skill or bravery
60. The farmer used a high _____ to keep the cattle from wandering off.
- n.* a pen or enclosure for livestock, especially cattle or horses; an area surrounded by a fence
61. The roof finally _____ after three days and three nights of heavy snowfall.
- v.* to fall down or give way suddenly, often after breaking apart
62. The oil price continued their downward _____.
- n.* a general direction in which something is changing or developing
63. The Juno spacecraft is currently in orbit around _____ studying the planet's atmosphere and magnetic field.
- n.* the fifth planet from the sun and the largest planet in the solar system, with a system of sixteen moons; the ancient Roman king of the gods, identified with the Greek god Zeus
64. The _____ theory suggests planets formed from the collision and aggregation of smaller bodies.
- n.* a small celestial body, typically one a few kilometers in size, that orbits a star and is composed of rock and metal, and that is thought to be a building block of planets
65. He was proud to be a _____ of the prestigious university.
- n.* (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university

ANSWERS: 59. feat, 60. corral, 61. collapsed, 62. trend, 63. Jupiter, 64. planetesimal, 65. grad

66. The corporation _____ dominated the entire tobacco business.

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 66. eventually