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Vocabulary Builder Reference from...

Aomawa Shields: How we'll find life on other planets | TED Talk

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

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.

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.

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.

possess

v. to have or own something or to have as an attribute, knowledge, skill, etc.

synonym : keep, maintain, own

(1) **possess** a basic knowledge, (2) **possess** divine powers
He **possesses** a good sense of humor.

contradiction

n. the assertion of the opposite of what has been said;
opposition; denial

synonym: inconsistency, opposition, contravention

(1) **contradiction** of capitalism, (2) apparent **contradiction**
His statement was filled with **contradictions** that made it
difficult to take seriously.

orbit

n. the path of an object around a celestial body, especially
a planet, star, or moon, under the influence of gravity;
(of medicine) the bony cavity in the skull that houses the
eyeball and its associated structures, like muscles,
nerves, and blood vessels

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**.

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.

diagram

n. a simplified illustration of the appearance, structure, or
workings of something

synonym: chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**
He is drawing a **diagram** illustrating how the equipment
operates.

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.

reside

v. to live in a particular place, typically for a prolonged period of time

synonym: live, dwell, inhabit

(1) **reside** on the skin, (2) **reside** permanently

They **reside** in a beautiful old house in the countryside.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

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

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

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

Climate and weather have an impact on every part of our lifestyles.

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.

Venus

n. the planet second in order from the sun

(1) **Venus** orbiter, (2) surface of **Venus**

They launched a rocket toward **Venus**.

goddess

n. a female god, especially in ancient mythology; a woman who is worshipped or adored

synonym: deity, divinity, idol

(1) a **goddess** of beauty, (2) winged **goddess** of victory

The festival was held in honor of the harvest **goddess**.

benign

adj. kind and gentle; not harmful or malicious

synonym : kind, gentle, harmless

(1) **benign** tumor, (2) a **benign** smile

The lump was discovered to be **benign**, and no further treatment was needed.

ethereal

adj. delicate, light, and airy; extremely refined or subtle; heavenly or spiritual

synonym : airy, delicate, celestial

(1) **ethereal** beauty, (2) **ethereal** light

The **ethereal** music created a dreamlike atmosphere in the concert hall.

spacecraft

n. a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

synonym : spaceship, satellite, probe

(1) **spacecraft** launch, (2) alien **spacecraft**

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

degree

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

synonym : level, qualification, diploma

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

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

melt

v. to turn from something solid into something soft or liquid as a result of heating

synonym: disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

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**.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym: conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

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

steroid

n. any of several organic compounds that are produced in the body and have important physiological effects and affect the development and growth of sex organs

(1) **steroid** abuse, (2) a **steroid** hormone

Some **steroids** are banned for use by athletes because of their muscle-building effects.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym: catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

scorch

v. to burn the surface of something, usually accidentally, with a hot iron or flame

synonym: char, burn, singe

(1) **scorch** your clothes, (2) careful not to **scorch**

The sun **scorched** the desert, making it uninhabitable.

contradict

v. to deny the truth of a statement by stating the opposite; to be in conflict with

synonym: conflict, oppose, belie

(1) **contradict** each other, (2) **contradict** the principle

The book contains numerous statements that **contradict** previous reports.

initial

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

synonym: basic, primary, beginning

(1) **initial** velocity, (2) an **initial** letter

They took the **initial** step toward reconciliation.

perception

n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

synonym: understanding, idea, awareness

(1) keen **perception**, (2) **perception** of a stimulus

He is a man admired for the depth of his **perception**.

crucial

adj. extremely vital or necessary

synonym: essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women

The revitalization of technology companies is **crucial** to the country's growth.

dim

adj. poorly lit; not bright

synonym: dull, faint, weak

(1) **dim** and distant past, (2) **dim** memory

The **dim** light made it difficult to read the book.

glamorous

adj. highly attractive and exciting, and different from ordinary things or people

synonym: alluring, bewitching, enchanting

(1) **glamorous** movie stars, (2) cast **glamorous** eyes

The south coast is less **glamorous** yet has many clean and appealing hotels.

trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars

One light year is nearly 6 **trillion** miles.

atmospheric

adj. about or located in the earth's atmosphere

synonym: atmospherical, climatic

(1) doubling of **atmospheric** carbon dioxide,

(2) **atmospheric** pressure

The sea surface temperature and **atmospheric** circulation are inextricably linked.

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**.

headlight

n. a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

synonym: headlamp, beam, lamp

(1) **headlight** adjustment, (2) **headlight** switch

My car's **headlight** must be replaced before I drive again at night.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs
The content is **precise** and informative for me.

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym: compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score
He couldn't **calculate** the actual value of the artwork.

suitable

adj. fit or appropriate; proper; adapted

synonym: appropriate, fitting, proper

(1) **suitable** amount, (2) date **suitable** to both groups
The dress was **suitable** for the formal occasion.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym: cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

orientation

n. a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment

synonym: direction, introduction, frontage

(1) sexual **orientation**, (2) the school **orientation**

There will be an **orientation** lecture for new students this afternoon.

absorb

v. to take in a fluid or other substance gradually

synonym: consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock
The sponge **absorbs** water well.

wavelength

n. the distance between two points in the same phase in consecutive cycles of a wave

(1) **wavelength** of light, (2) long- **wavelength** laser

White color is made up of many different **wavelengths** of light.

iceberg

n. a large piece of ice floating in the sea, detached from a glacier

synonym: glacier, ice mass, floe

(1) hit an **iceberg**, (2) **iceberg** melting

The ship encountered a series of **icebergs** and had to change its course.

vital

adj. necessary for the success or continued existence of something

synonym: critical, crucial, invigorating

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

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

makeup

n. colored substances used on someone's face to improve or change their appearance

synonym: maquillage, composition, cosmetic

(1) **makeup** artist, (2) take the **makeup** off her face

Her beauty resulted from a good night's sleep rather than **makeup**.

fashion

n. a style that is popular at a particular time or place; the state of being popular

synonym: style, manner, fad

(1) go out of **fashion**, (2) new **fashion** trends

That style is no longer in **fashion**.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

synonym : acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

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.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

interweave

v. to combine or blend substantive parts or elements; to interlace; to mix or intermingle

synonym : intertwine, intertwist, interlace

(1) **interweave** threads, (2) **interweave** ideas

The author expertly tried to **interweave** the story's plot and characters.

rank

n. a position in a hierarchy of status or authority; (verb) to take or have a position relative to others

synonym : position, status, standing

(1) **rank** amateur, (2) high **rank**

He was promoted to the **rank** of captain in the military.

background

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

synonym : ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**

The company's hiring criteria emphasize personality, not a person's **background**.

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**.

Session 2: Spelling

- | | |
|---------------------------------------|---|
| 1. app_____te the value | <i>v.</i> to value and acknowledge the worth of someone or something; to be grateful for something or someone |
| 2. po_____s a basic knowledge | <i>v.</i> to have or own something or to have as an attribute, knowledge, skill, etc. |
| 3. 3D di_____m | <i>n.</i> a simplified illustration of the appearance, structure, or workings of something |
| 4. d_m memory | <i>adj.</i> poorly lit; not bright |
| 5. a st_____d hormone | <i>n.</i> any of several organic compounds that are produced in the body and have important physiological effects and affect the development and growth of sex organs |
| 6. he_____ht adjustment | <i>n.</i> a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead |
| 7. d_m and distant past | <i>adj.</i> poorly lit; not bright |
| 8. int_____ve ideas | <i>v.</i> to combine or blend substantive parts or elements; to interlace; to mix or intermingle |
| 9. the great di_____ry of the century | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known |
| 10. con_____ct each other | <i>v.</i> to deny the truth of a statement by stating the opposite; to be in conflict with |

ANSWERS: 1. appreciate, 2. possess, 3. diagram, 4. dim, 5. steroid, 6. headlight, 7. dim, 8. interweave, 9. discovery, 10. contradict

- | | |
|--------------------------------|--|
| 11. Ve__s orbiter | <i>n.</i> the planet second in order from the sun |
| 12. expansion 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 |
| 13. re___e permanently | <i>v.</i> to live in a particular place, typically for a prolonged period of time |
| 14. co_____t car | <i>n.</i> an idea or principle associated with something abstract |
| 15. wav_____th of light | <i>n.</i> the distance between two points in the same phase in consecutive cycles of a wave |
| 16. pr_____e analyses | <i>adj.</i> sharply exact or accurate or delimited |
| 17. long-wav_____th laser | <i>n.</i> the distance between two points in the same phase in consecutive cycles of a wave |
| 18. con_____ct the principle | <i>v.</i> to deny the truth of a statement by stating the opposite; to be in conflict with |
| 19. a cr_____l issue for women | <i>adj.</i> extremely vital or necessary |
| 20. social di_____ce | <i>n.</i> 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 |
| 21. winged go_____s of victory | <i>n.</i> a female god, especially in ancient mythology; a woman who is worshipped or adored |

ANSWERS: 11. Venus, 12. universe, 13. reside, 14. concept, 15. wavelength, 16. precise, 17. wavelength, 18. contradict, 19. crucial, 20. distance, 21. goddess

22. atm_____ic pressure *adj.* about or located in the earth's atmosphere
23. 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
24. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
25. vi___l navigation *adj.* relating to seeing or sight
26. amateur ast_____er *n.* a physicist who studies astronomy
27. 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
28. field of vi___l arts *adj.* relating to seeing or sight
29. hit an ic_____g *n.* a large piece of ice floating in the sea, detached from a glacier
30. 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
31. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
32. high r__k *n.* a position in a hierarchy of status or authority; (verb) to take or have a position relative to others

ANSWERS: 22. atmospheric, 23. planet, 24. refer, 25. visual, 26. astronomer, 27. atmosphere, 28. visual, 29. iceberg, 30. astronomy, 31. diagram, 32. rank

33. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
34. cast gl_____us eyes *adj.* highly attractive and exciting, and different from ordinary things or people
35. 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; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
36. new fa_____n trends *n.* a style that is popular at a particular time or place; the state of being popular
37. r__k amateur *n.* a position in a hierarchy of status or authority; (verb) to take or have a position relative to others
38. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
39. 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; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

ANSWERS: 33. refer, 34. glamorous, 35. orbit, 36. fashion, 37. rank, 38. rev, 39. orbit

40. 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
41. an in_____l letter *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name
42. ma____p artist *n.* colored substances used on someone's face to improve or change their appearance
43. tr_____on cubic feet *n.* the number 1,000,000,000,000; a million million
44. sexual ori_____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
45. con_____ion of capitalism *n.* the assertion of the opposite of what has been said; opposition; denial
46. m__t the ice *v.* to turn from something solid into something soft or liquid as a result of heating
47. ab____b a shock *v.* to take in a fluid or other substance gradually
48. de____e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
49. play a vi__l role *adj.* necessary for the success or continued existence of something

ANSWERS: 40. discovery, 41. initial, 42. makeup, 43. trillion, 44. orientation, 45. contradiction, 46. melt, 47. absorb, 48. degree, 49. vital

50. many tr_____ons of dollars *n.* the number 1,000,000,000,000; a million million
51. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
52. surface of Ve__s *n.* the planet second in order from the sun
53. a cold cl_____e *n.* the weather in a particular location averaged over some long period
54. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
55. re___e on the skin *v.* to live in a particular place, typically for a prolonged period of time
56. a go_____s of beauty *n.* a female god, especially in ancient mythology; a woman who is worshipped or adored
57. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
58. 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
59. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
60. 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

ANSWERS: 50. trillion, 51. calculate, 52. Venus, 53. climate, 54. background, 55. reside, 56. goddess, 57. spacecraft, 58. atmosphere, 59. precise, 60. astronomy

61. the school ori_____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
62. apparent con_____ion *n.* the assertion of the opposite of what has been said; opposition; denial
63. 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
64. per_____on of a stimulus *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
65. cr_____l information *adj.* extremely vital or necessary
66. et_____al light *adj.* delicate, light, and airy; extremely refined or subtle; heavenly or spiritual
67. po_____s divine powers *v.* to have or own something or to have as an attribute, knowledge, skill, etc.
68. the closest ex_____et to Earth *n.* a planet that orbits a star outside of the solar system
69. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
70. take the ma_____p off her face *n.* colored substances used on someone's face to improve or change their appearance
71. m__t down gold *v.* to turn from something solid into something soft or liquid as a result of heating

ANSWERS: 61. orientation, 62. contradiction, 63. composition, 64. perception, 65. crucial, 66. ethereal, 67. possess, 68. exoplanet, 69. temperature, 70. makeup, 71. melt

72. ex_____et mission *n.* a planet that orbits a star outside of the solar system
73. int_____ve threads *v.* to combine or blend substantive parts or elements; to interlace; to mix or intermingle
74. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
75. in_____l velocity *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name
76. 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
77. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
78. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
79. solar ast_____er *n.* a physicist who studies astronomy
80. st_____d abuse *n.* any of several organic compounds that are produced in the body and have important physiological effects and affect the development and growth of sex organs
81. date su_____le to both groups *adj.* fit or appropriate; proper; adapted

ANSWERS: 72. exoplanet, 73. interweave, 74. greenhouse, 75. initial, 76. distance, 77. telescope, 78. temperature, 79. astronomer, 80. steroid, 81. suitable

82. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
83. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
84. 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
85. bachelor's de___e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
86. gl_____us movie stars *adj.* highly attractive and exciting, and different from ordinary things or people
87. vi__l for a healthy society *adj.* necessary for the success or continued existence of something
88. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
89. keen per_____on *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

ANSWERS: 82. calculate, 83. trap, 84. composition, 85. degree, 86. glamorous, 87. vital, 88. background, 89. perception

- | | |
|---|---|
| 90. ab___b energy | <i>v.</i> to take in a fluid or other substance gradually |
| 91. su_____le amount | <i>adj.</i> fit or appropriate; proper; adapted |
| 92. set a t__p | <i>n.</i> a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping |
| 93. exotic plants in a gre_____se | <i>n.</i> a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in |
| 94. be___n tumor | <i>adj.</i> kind and gentle; not harmful or malicious |
| 95. sc___h your clothes | <i>v.</i> to burn the surface of something, usually accidentally, with a hot iron or flame |
| 96. effects of cl_____e change | <i>n.</i> the weather in a particular location averaged over some long period |
| 97. doubling of atm_____ic carbon dioxide | <i>adj.</i> about or located in the earth's atmosphere |
| 98. careful not to sc___h | <i>v.</i> to burn the surface of something, usually accidentally, with a hot iron or flame |
| 99. a be___n smile | <i>adj.</i> kind and gentle; not harmful or malicious |
| 100. ic_____g melting | <i>n.</i> a large piece of ice floating in the sea, detached from a glacier |
| 101. et_____al beauty | <i>adj.</i> delicate, light, and airy; extremely refined or subtle; heavenly or spiritual |

ANSWERS: 90. absorb, 91. suitable, 92. trap, 93. greenhouse, 94. benign, 95. scorch, 96. climate, 97. atmospheric, 98. scorch, 99. benign, 100. iceberg, 101. ethereal

102. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
103. alien spa_____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
104. go out of fa_____n *n.* a style that is popular at a particular time or place; the state of being popular
105. 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
106. learn new co_____ts *n.* an idea or principle associated with something abstract
107. he_____ht switch *n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
108. app_____te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
109. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
110. 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

ANSWERS: 102. telescope, 103. spacecraft, 104. fashion, 105. universe, 106. concept, 107. headlight, 108. appreciate, 109. rev, 110. planet

ANSWERS:

Session 3: Fill in the Blanks

1. This question has fascinated solar _____ for decades.
n. a physicist who studies astronomy
2. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
3. Please _____ to the instruction manual for further assistance.
v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
4. 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
5. The content is _____ and informative for me.
adj. sharply exact or accurate or delimited
6. 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
7. The revitalization of technology companies is _____ to the country's growth.
adj. extremely vital or necessary
8. The festival was held in honor of the harvest _____.
n. a female god, especially in ancient mythology; a woman who is worshipped or adored

ANSWERS: 1. astronomers, 2. concept, 3. refer, 4. universe, 5. precise, 6. exoplanet, 7. crucial, 8. goddess

9. The _____ music created a dreamlike atmosphere in the concert hall.
adj. delicate, light, and airy; extremely refined or subtle; heavenly or spiritual
10. The company's hiring criteria emphasize personality, not a person's _____.
n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
11. One light year is nearly 6 _____ miles.
n. the number 1,000,000,000,000; a million million
12. The _____ effect is a phenomenon that happens naturally.
n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
13. 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
14. The lump was discovered to be _____ and no further treatment was needed.
adj. kind and gentle; not harmful or malicious
15. 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
16. The building makes a remarkable _____ impact.
adj. relating to seeing or sight

ANSWERS: 9. ethereal, 10. background, 11. trillion, 12. greenhouse, 13. astronomy, 14. benign, 15. telescope, 16. visual

17. The sun _____ the desert, making it uninhabitable.

v. to burn the surface of something, usually accidentally, with a hot iron or flame

18. He couldn't _____ the actual value of the artwork.

v. to judge or find out the amount or number of something by using mathematics

19. He stepped on the gas pedal, and the engine released a loud ____.

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

20. She received her _____ in psychology from the university.

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

21. Perseverance and optimism are _____ to success.

adj. necessary for the success or continued existence of something

22. Her beauty resulted from a good night's sleep rather than _____.

n. colored substances used on someone's face to improve or change their appearance

23. The dress was _____ for the formal occasion.

adj. fit or appropriate; proper; adapted

24. Mercury is the closest _____ to the sun.

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

ANSWERS: 17. scorched, 18. calculate, 19. rev, 20. degree, 21. vital, 22. makeup, 23. suitable, 24. planet

25. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
26. The sponge _____ water well.
v. to take in a fluid or other substance gradually
27. 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
28. The ___ light made it difficult to read the book.
adj. poorly lit; not bright
29. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something
30. He was promoted to the _____ of captain in the military.
n. a position in a hierarchy of status or authority; (verb) to take or have a position relative to others
31. The author expertly tried to _____ the story's plot and characters.
v. to combine or blend substantive parts or elements; to interlace; to mix or intermingle
32. His statement was filled with _____ that made it difficult to take seriously.
n. the assertion of the opposite of what has been said; opposition; denial

ANSWERS: 25. temperatures, 26. absorbs, 27. distance, 28. dim, 29. diagram, 30. rank, 31. interweave, 32. contradictions

33. The sea surface temperature and _____ circulation are inextricably linked.

adj. about or located in the earth's atmosphere

34. Some _____ are banned for use by athletes because of their muscle-building effects.

n. any of several organic compounds that are produced in the body and have important physiological effects and affect the development and growth of sex organs

35. There will be an _____ lecture for new students this afternoon.

n. a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment

36. That style is no longer in _____.

n. a style that is popular at a particular time or place; the state of being popular

37. White color is made up of many different _____ of light.

n. the distance between two points in the same phase in consecutive cycles of a wave

38. _____ and weather have an impact on every part of our lifestyles.

n. the weather in a particular location averaged over some long period

39. They took the _____ step toward reconciliation.

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

40. 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

ANSWERS: 33. atmospheric, 34. steroids, 35. orientation, 36. fashion, 37. wavelengths, 38. Climate, 39. initial, 40. discovery

41. The enemy fell right into the _____.
- n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
42. The ship encountered a series of _____ and had to change its course.
- n.* a large piece of ice floating in the sea, detached from a glacier
43. Her resistance _____ under his persuasion.
- v.* to turn from something solid into something soft or liquid as a result of heating
44. They launched a rocket toward _____.
- n.* the planet second in order from the sun
45. 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; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
46. 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
47. They _____ in a beautiful old house in the countryside.
- v.* to live in a particular place, typically for a prolonged period of time
48. The human-crewed _____ successfully landed on the moon, fulfilling its mission.
- n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

ANSWERS: 41. trap, 42. icebergs, 43. melted, 44. Venus, 45. orbit, 46. atmosphere, 47. reside, 48. spacecraft

49. He is a man admired for the depth of his _____.
- n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
50. We would _____ an early reply.
- v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
51. 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
52. The south coast is less _____ yet has many clean and appealing hotels.
- adj.* highly attractive and exciting, and different from ordinary things or people
53. The book contains numerous statements that _____ previous reports.
- v.* to deny the truth of a statement by stating the opposite; to be in conflict with
54. My car's _____ must be replaced before I drive again at night.
- n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
55. He _____ a good sense of humor.
- v.* to have or own something or to have as an attribute, knowledge, skill, etc.

ANSWERS: 49. perception, 50. appreciate, 51. composition, 52. glamorous, 53. contradict, 54. headlight, 55. possesses