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Vocabulary Builder Reference from...

Valentin Hammoudi: How tall can a tree grow? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

sequoia

n. a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood

synonym : redwood

(1) a giant **sequoia**, (2) **Sequoia** National Park

The **sequoia** tree is known for its massive size and long lifespan.

tower

n. a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone

synonym : building, belfry, edifice

(1) a bell **tower**, (2) the **tower** on a cliff

She is a **tower** of strength for our team in trouble.

estimate

v. to guess or calculate the cost, size, value, etc. of something

synonym : calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh three pounds

We **estimated** the season's total trade deficit at \$50 billion.

misty

adj. characterized by, obscured by, or enveloped in mist or fog; hazy or unclear, often referring to the quality of a

memory or thought

synonym : hazy, foggy, blurred

(1) **misty** intention, (2) **misty** forest

The **misty** morning made it hard to see the road ahead.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

trunk

n. the main stem or body of a tree which its branches grow

synonym : body, chest, torso

(1) the **trunk** of the tree, (2) the **trunk** of the body

Destructive fungi thrive in moist environments, such as those seen in wounds on the **trunk**.

behemoth

n. something extremely large and powerful; a huge or monstrous creature, often mythical in nature

synonym : giant, monster, colossus

(1) **behemoth** company, (2) technology **behemoth**

The construction site was filled with **behemoth** machines.

sap

v. to gradually weaken or drain strength, energy, or resources; to undermine or impair someone's confidence or morale

synonym : weaken, exhaust, drain

(1) **sap** flow, (2) **sap** strength

The disease has **sapped** all his energy, and he can barely get out of bed.

obtain

v. to get something, especially by making a great effort

synonym : accept, acquire, receive

(1) **obtain** a license, (2) **obtain** a bid

Where can I **obtain** the application form?

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

nutrient

n. any substance that is essential for the maintenance and growth of living things

synonym : food, vitamin

(1) **nutrient** medicine, (2) a **nutrient** for hair

They used fast-acting **nutrients** on the flowers in the flower beds.

circulate

v. to move continuously or freely around a place or closed system

synonym : flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

substance

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

synonym : essence, core, material

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

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

phloem

n. the tissue in plants that conducts sugars and other metabolic products downward from the leaves

synonym : sieve tube, vascular tissue, plant sap

(1) **phloem** tissue, (2) **phloem** cell

The **phloem** transports the sugars produced in the leaves to other plant parts.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym : structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym : broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

watery

adj. full of or containing water; wet

synonym : liquid, wet, damp

(1) a **watery** fluid, (2) go to a **watery** grave

The soup was too **watery** and needed more flavor.

xylem

n. the tissue in plants that conducts water and dissolved nutrients from the roots upward through the stem and into the leaves

synonym : wood, tree sap, plant stem

(1) **xylem** vessels, (2) **xylem** cell

The **xylem** in trees gives them strength and allows them to transport water and nutrients.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

(1) **ion** channel, (2) rechargeable lithium- **ion** battery

The increased concentration of **ion** of hydrogen ions in an aqueous solution makes it more acidic.

calcium

n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body

synonym : Ca, lime, chalk

(1) **calcium** deficiency, (2) ion of **calcium**

The patient was prescribed a **calcium** supplement to help prevent osteoporosis.

potassium

n. a chemical element with the symbol K, atomic number 19, that is essential for the functioning of living organisms

synonym : K, potash, potassa

(1) **potassium** rich, (2) **potassium** excretion

The patient's **potassium** levels were low, so they were advised to eat foods high in potassium, such as bananas and sweet potatoes.

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.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym : atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

balance

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

synonym : equilibrium, counterpoise, remainder

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

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

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

osmosis

n. the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another

synonym : diffusion, permeation, absorption

(1) **osmosis** process, (2) **osmosis** tube

The roots of plants absorb water and nutrients through **osmosis**.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym : motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

formidable

adj. causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration

synonym : daunting, intimidating, fearful

(1) **formidable** challenge, (2) **formidable** competitor

The mountain range was a **formidable** obstacle for the hikers.

obstacle

n. a thing that blocks one's way or prevents or hinders progress

synonym : hindrance, barrier, block

(1) an **obstacle** to progress, (2) **obstacle** avoidance

The **obstacle** course was challenging but fun.

gravity

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

synonym : heaviness, attraction, weight

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

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

accomplish

v. to finish or achieve something successfully

synonym : achieve, complete, execute

(1) **accomplish** a goal, (2) **accomplish** military operations

Humankind took centuries to **accomplish** true democracy.

herculean

adj. requiring great strength, effort, or endurance; of or relating to the legendary strength of the ancient Greek hero Hercules

synonym : challenging, formidable, strenuous

(1) **herculean** effort, (2) make **herculean** progress

Completing this project in such a short amount of time will be a **herculean** task.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

transpire

v. to happen or be revealed

synonym : occur, happen, take place

(1) **transpire** as expected, (2) **transpire** in the news

It finally **transpired** that an employee had stolen the missing money.

capillary

n. a tube of small internal diameter; any of the minute tubes that carry blood

(1) a **capillary** tube, (2) **capillary** action

There are many **capillary** vessels in the gills of fish.

stoma

n. a small opening, pore, or pore-like structure, usually found on the surface of plants, through which gases are exchanged with the environment; in animals, a small opening or pore, such as the mouth or nostril

synonym: pore, opening, stomatal

(1) **stomas** on the underside of the leaf, (2) tracheostomy

stoma

The surgeon created a **stoma** in the patient's abdomen for feeding and waste elimination.

oxygen

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

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

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

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

oxide

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

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

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

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.

evaporation

n. the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced

pressure; the gradual disappearance or dissipation of something, such as money or resources

synonym : vaporization, dehydration, desiccation

(1) **evaporation** cooling, (2) slow **evaporation**

The formation of clouds is facilitated by the process of **evaporation** and condensation

negative

adj. having the quality of something bad or harmful; expressing refusal

synonym : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

aid

n. things sent to help countries in need, notably food or money; support

synonym : helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

property

n. a thing or things that belong to someone

synonym : belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

attraction

n. a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity

synonym : allure, appeal, interest

(1) the big **attraction** of the event, (2) popular tourist **attraction**

She felt an instant **attraction** toward him.

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.

adhesive

n. a sticky substance used to hold things together

synonym : sticky, clingy, gluey

(1) **adhesive** ability, (2) **adhesive** tape

You'll need some solid **adhesive** to repair that chair.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym : fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

launch

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make

something available or on sale for the first time

synonym : start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

dizzy

adj. having or causing a whirling sensation and not able to keep balance

synonym : addled, confounded, unsteady

(1) feel **dizzy**, (2) had a **dizzy** spell

Professional skaters can spin fast on the ice without getting **dizzy**.

sophisticated

adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

synonym : refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

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.

fluid

n. a substance that can flow and is not solid

synonym : liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

dwindle

v. to gradually decrease in size, amount, or strength; to become smaller

synonym: shrink, decrease, fade

(1) **dwindle** in importance, (2) **dwindle** to almost nothing

The crowds at the festival **dwindled** as the night went on.

afford

v. to have enough money or time to be able to buy or do something

(1) **afford** to buy a new car, (2) **afford** a high travel cost

He cannot **afford** a holiday.

addition

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

synonym: accumulation, expansion, addendum

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

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

branch

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

hydraulic

adj. relating to water or other liquids in motion or to the machinery or systems that use liquid pressure to perform work or operate mechanisms

synonym: fluid-operated, water-powered, pressurized

(1) **hydraulic** pump, (2) **hydraulic** power unit

The **hydraulic** lift easily lifted the heavy boxes to the upper floor.

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**.

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.

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.

investigate

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

synonym: examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak
The committee **investigated** several apparent inconsistencies.

universal

adj. existing or affecting everywhere or everyone

synonym: common, broad, worldwide

(1) **universal** life, (2) principles of **universal** design
The picture earned near- **universal** acclaim from critics.

Session 2: Spelling

1. i_n channel *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

2. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

3. a ca_____ry tube *n.* a tube of small internal diameter; any of the minute tubes that carry blood

4. xy__m cell *n.* the tissue in plants that conducts water and dissolved nutrients from the roots upward through the stem and into the leaves

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

6. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

7. for_____le challenge *adj.* causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration

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

ANSWERS: 1. ion, 2. rely, 3. capillary, 4. xylem, 5. substance, 6. rely, 7. formidable, 8. gravity

9. ob___n a license *v.* to get something, especially by making a great effort
10. ev_____te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
11. un_____al life *adj.* existing or affecting everywhere or everyone
12. a ne_____ve number *adj.* having the quality of something bad or harmful; expressing refusal
13. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
14. os_____s process *n.* the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another
15. af___d to buy a new car *v.* to have enough money or time to be able to buy or do something
16. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
17. a sop_____ted lifestyle *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

ANSWERS: 9. obtain, 10. evaporate, 11. universal, 12. negative, 13. centimeter, 14. osmosis, 15. afford, 16. launch, 17. sophisticated

18. an ob_____le to progress *n.* a thing that blocks one's way or prevents or hinders progress
19. go to a wa____y grave *adj.* full of or containing water; wet
20. ca_____ry action *n.* a tube of small internal diameter; any of the minute tubes that carry blood
21. os_____s tube *n.* the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another
22. the big att_____on of the event *n.* a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity
23. dw_____e in importance *v.* to gradually decrease in size, amount, or strength; to become smaller
24. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
25. asset on the company's ba_____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away

ANSWERS: 18. obstacle, 19. watery, 20. capillary, 21. osmosis, 22. attraction, 23. dwindle, 24. process, 25. balance

26. charged pa____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
27. po_____um excretion *n.* a chemical element with the symbol K, atomic number 19, that is essential for the functioning of living organisms
28. dw_____e to almost nothing *v.* to gradually decrease in size, amount, or strength; to become smaller
29. ca_____m deficiency *n.* a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
30. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
31. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
32. sop_____ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
33. br____h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
34. plenty of fl__ds *n.* a substance that can flow and is not solid
35. 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

ANSWERS: 26. particle, 27. potassium, 28. dwindle, 29. calcium, 30. environment, 31. specific, 32. sophisticated, 33. branch, 34. fluid, 35. hypothesis

36. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
37. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
38. slow eva_____on *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
39. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
40. financial a_d *n.* things sent to help countries in need, notably food or money; support
41. popular tourist att_____on *n.* a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity
42. carbon fi_____nt *n.* a thin wire or thread, especially one used to produce light in an electric bulb
43. eva_____on cooling *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
44. ma_____e amounts *adj.* enormous amount; very heavy and solid

ANSWERS: 36. tube, 37. addition, 38. evaporation, 39. substance, 40. aid, 41. attraction, 42. filament, 43. evaporation, 44. massive

45. hy_____ic pump *adj.* relating to water or other liquids in motion or to the machinery or systems that use liquid pressure to perform work or operate mechanisms
46. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
47. tracheostomy st__a *n.* a small opening, pore, or pore-like structure, usually found on the surface of plants, through which gases are exchanged with the environment; in animals, a small opening or pore, such as the mouth or nostril
48. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
49. a br___h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
50. ob_____le avoidance *n.* a thing that blocks one's way or prevents or hinders progress
51. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
52. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element

ANSWERS: 45. hydraulic, 46. movement, 47. stoma, 48. tissue, 49. branch, 50. obstacle, 51. particle, 52. oxide

53. ob___n a bid *v.* to get something, especially by making a great effort
54. af___d a high travel cost *v.* to have enough money or time to be able to buy or do something
55. principles of un_____al design *adj.* existing or affecting everywhere or everyone
56. ab___b a shock *v.* to take in a fluid or other substance gradually
57. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
58. oxygenic pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
59. tr_____re as expected *v.* to happen or be revealed
60. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
61. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
62. pr_____e the amendment *v.* to make a proposal, declare a plan for something
63. process of pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 53. obtain, 54. afford, 55. universal, 56. absorb, 57. aid, 58. photosynthesis, 59. transpire, 60. addition, 61. carbon, 62. propose, 63. photosynthesis

64. ma_____e stars *adj.* enormous amount; very heavy and solid
65. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
66. lack of ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
67. ad_____ve ability *n.* a sticky substance used to hold things together
68. a giant se_____a *n.* a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
69. a bell to__r *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
70. play a vi__l role *adj.* necessary for the success or continued existence of something
71. acc_____sh military operations *v.* to finish or achieve something successfully
72. po_____um rich *n.* a chemical element with the symbol K, atomic number 19, that is essential for the functioning of living organisms
73. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
74. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things

ANSWERS: 64. massive, 65. fundamental, 66. oxygen, 67. adhesive, 68. sequoia, 69. tower, 70. vital, 71. accomplish, 72. potassium, 73. centimeter, 74. nutrient

75. s_p strength *v.* to gradually weaken or drain strength, energy, or resources; to undermine or impair someone's confidence or morale
76. ab___b energy *v.* to take in a fluid or other substance gradually
77. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
78. st__as on the underside of the leaf *n.* a small opening, pore, or pore-like structure, usually found on the surface of plants, through which gases are exchanged with the environment; in animals, a small opening or pore, such as the mouth or nostril
79. the ba_____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
80. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
81. a man of pr_____ty *n.* a thing or things that belong to someone
82. tr_____re in the news *v.* to happen or be revealed
83. dis_____te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
84. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something

ANSWERS: 75. sap, 76. absorb, 77. carbon, 78. stoma, 79. balance, 80. molecule, 81. property, 82. transpire, 83. distribute, 84. estimate

85. 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
86. he_____an effort
adj. requiring great strength, effort, or endurance; of or relating to the legendary strength of the ancient Greek hero Hercules
87. technology be_____th
n. something extremely large and powerful; a huge or monstrous creature, often mythical in nature
88. ion of ca_____m
n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
89. pr_____e changes
v. to make a proposal, declare a plan for something
90. be_____th company
n. something extremely large and powerful; a huge or monstrous creature, often mythical in nature
91. acc_____sh a goal
v. to finish or achieve something successfully
92. fl__d assets
n. a substance that can flow and is not solid
93. the tr__k of the body
n. the main stem or body of a tree which its branches grow
94. hy_____ic power unit
adj. relating to water or other liquids in motion or to the machinery or systems that use liquid pressure to perform work or operate mechanisms
95. have a ne_____ve effect
adj. having the quality of something bad or harmful; expressing refusal

ANSWERS: 85. hypothesis, 86. herculean, 87. behemoth, 88. calcium, 89. propose, 90. behemoth, 91. accomplish, 92. fluid, 93. trunk, 94. hydraulic, 95. negative

96. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
97. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
98. a wa___y fluid *adj.* full of or containing water; wet
99. ci_____te an agenda before the meeting *v.* to move continuously or freely around a place or closed system
100. chemical pr_____ty *n.* a thing or things that belong to someone
101. the to__r on a cliff *n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
102. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
103. ph___m cell *n.* the tissue in plants that conducts sugars and other metabolic products downward from the leaves
104. rechargeable lithium-i_n battery *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

ANSWERS: 96. launch, 97. movement, 98. watery, 99. circulate, 100. property, 101. tower, 102. investigate, 103. phloem, 104. ion

105. the tr__k of the tree *n.* the main stem or body of a tree which its branches grow
106. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
107. ad____ve tape *n.* a sticky substance used to hold things together
108. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
109. dis_____te video content *v.* to give something to a large number of individuals, or to spread or furnish something
110. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
111. a glass t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
112. for_____le competitor *adj.* causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration
113. mi__y forest *adj.* characterized by, obscured by, or enveloped in mist or fog; hazy or unclear, often referring to the quality of a memory or thought

ANSWERS: 105. trunk, 106. molecule, 107. adhesive, 108. tissue, 109. distribute, 110. gravity, 111. tube, 112. formidable, 113. misty

114. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
115. ci_____te a rumor *v.* to move continuously or freely around a place or closed system
116. fi_____nt lamp *n.* a thin wire or thread, especially one used to produce light in an electric bulb
117. mi__y intention *adj.* characterized by, obscured by, or enveloped in mist or fog; hazy or unclear, often referring to the quality of a memory or thought
118. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
119. xy__m vessels *n.* the tissue in plants that conducts water and dissolved nutrients from the roots upward through the stem and into the leaves
120. inv_____te the matter *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
121. make he_____an progress *adj.* requiring great strength, effort, or endurance; of or relating to the legendary strength of the ancient Greek hero Hercules
122. had a di__y spell *adj.* having or causing a whirling sensation and not able to keep balance

ANSWERS: 114. oxygen, 115. circulate, 116. filament, 117. misty, 118. specific, 119. xylem, 120. investigate, 121. herculean, 122. dizzy

123. ev_____te the water *v.* to turn a liquid into a gas; to become less intense and disappear gradually
124. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
125. feel di__y *adj.* having or causing a whirling sensation and not able to keep balance
126. s_p flow *v.* to gradually weaken or drain strength, energy, or resources; to undermine or impair someone's confidence or morale
127. ph___m tissue *n.* the tissue in plants that conducts sugars and other metabolic products downward from the leaves
128. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
129. vi__l for a healthy society *adj.* necessary for the success or continued existence of something
130. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
131. Se_____a National Park *n.* a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
132. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
133. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 123. evaporate, 124. nutrient, 125. dizzy, 126. sap, 127. phloem, 128. fundamental, 129. vital, 130. estimate, 131. sequoia, 132. oxide, 133. process

134. chaotic env_____nt

n. the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 134. environment

Session 3: Fill in the Blanks

1. There are many _____ vessels in the gills of fish.
n. a tube of small internal diameter; any of the minute tubes that carry blood
2. Humankind took centuries to _____ true democracy.
v. to finish or achieve something successfully
3. In _____ plants use carbon dioxide to feed themselves.
n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
4. The _____ in the light bulb burned out, and now it's not working.
n. a thin wire or thread, especially one used to produce light in an electric bulb
5. 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
6. The _____ tree is known for its massive size and long lifespan.
n. a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
7. Trees absorb _____ dioxide and give off oxygen.
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
8. Marketing strategies are growing more _____.
adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

ANSWERS: 1. capillary, 2. accomplish, 3. photosynthesis, 4. filament, 5. hypothesis, 6. sequoia, 7. carbon, 8. sophisticated

9. The patient was prescribed a _____ supplement to help prevent osteoporosis.
n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
10. The sun will _____ the mist.
v. to turn a liquid into a gas; to become less intense and disappear gradually
11. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid
12. The _____ of the dancers on stage was graceful and elegant.
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
13. She was diagnosed with a _____ buildup in her lungs.
n. a substance that can flow and is not solid
14. The picture earned near-_____ acclaim from critics.
adj. existing or affecting everywhere or everyone
15. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
16. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected

ANSWERS: 9. calcium, 10. evaporate, 11. massive, 12. movement, 13. fluid, 14. universal, 15. oxide, 16. fundamental

17. The formation of clouds is facilitated by the process of _____ and condensation
- n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
18. You'll need some solid _____ to repair that chair.
- n.* a sticky substance used to hold things together
19. They used fast-acting _____ on the flowers in the flower beds.
- n.* any substance that is essential for the maintenance and growth of living things
20. His estate was _____ to his sons.
- v.* to give something to a large number of individuals, or to spread or furnish something
21. We can calculate the position of the _____ statistically.
- n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
22. The soup was too _____ and needed more flavor.
- adj.* full of or containing water; wet
23. The construction site was filled with _____ machines.
- n.* something extremely large and powerful; a huge or monstrous creature, often mythical in nature
24. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 17. evaporation, 18. adhesive, 19. nutrients, 20. distributed, 21. particles, 22. watery, 23. behemoth, 24. addition,

25. The movie has received almost universally _____ criticism.
adj. having the quality of something bad or harmful; expressing refusal
26. Pakistan's ____ budget was still being reviewed.
n. things sent to help countries in need, notably food or money; support
27. 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
28. The _____ transports the sugars produced in the leaves to other plant parts.
n. the tissue in plants that conducts sugars and other metabolic products downward from the leaves
29. The ____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
30. The crowds at the festival _____ as the night went on.
v. to gradually decrease in size, amount, or strength; to become smaller
31. She felt an instant _____ toward him.
n. a sense of like someone, particularly sexually; something that causes individuals to desire to go to a specific area or do a specific activity
32. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 25. negative, 26. aid, 27. molecule, 28. phloem, 29. tube, 30. dwindled, 31. attraction, 32. environment

33. The _____ of the argument was well-presented.
- n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
34. She is a _____ of strength for our team in trouble.
- n.* a structure that is exceptionally high in proportion to its width and either forms part of a building or stands alone
35. The passenger grabbed for the _____ mask.
- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
36. The astronaut felt weightless in space due to the absence of _____.
- n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
37. Professional skaters can spin fast on the ice without getting _____.
- adj.* having or causing a whirling sensation and not able to keep balance
38. The _____ lift easily lifted the heavy boxes to the upper floor.
- adj.* relating to water or other liquids in motion or to the machinery or systems that use liquid pressure to perform work or operate mechanisms
39. We _____ the season's total trade deficit at \$50 billion.
- v.* to guess or calculate the cost, size, value, etc. of something
40. 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

ANSWERS: 33. substance, 34. tower, 35. oxygen, 36. gravity, 37. dizzy, 38. hydraulic, 39. estimated, 40. specific

41. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.
- n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
42. The disease has _____ all his energy, and he can barely get out of bed.
- v.* to gradually weaken or drain strength, energy, or resources; to undermine or impair someone's confidence or morale
43. The patient's _____ levels were low, so they were advised to eat foods high in potassium, such as bananas and sweet potatoes.
- n.* a chemical element with the symbol K, atomic number 19, that is essential for the functioning of living organisms
44. He cannot _____ a holiday.
- v.* to have enough money or time to be able to buy or do something
45. The fan _____ the air in the room quickly.
- v.* to move continuously or freely around a place or closed system
46. The _____ in trees gives them strength and allows them to transport water and nutrients.
- n.* the tissue in plants that conducts water and dissolved nutrients from the roots upward through the stem and into the leaves
47. The surgeon created a _____ in the patient's abdomen for feeding and waste elimination.
- n.* a small opening, pore, or pore-like structure, usually found on the surface of plants, through which gases are exchanged with the environment; in animals, a small opening or pore, such as the mouth or nostril

ANSWERS: 41. ion, 42. sapped, 43. potassium, 44. afford, 45. circulates, 46. xylem, 47. stoma

48. The _____ course was challenging but fun.

n. a thing that blocks one's way or prevents or hinders progress

49. Destructive fungi thrive in moist environments, such as those seen in wounds on the _____.

n. the main stem or body of a tree which its branches grow

50. It finally _____ that an employee had stolen the missing money.

v. to happen or be revealed

51. The room was only one _____ wider than the piano, making it a tight fit.

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

52. The roots of plants absorb water and nutrients through _____.

n. the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another

53. Where can I _____ the application form?

v. to get something, especially by making a great effort

54. The _____ of the tree had fallen and blocked the road.

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

55. Babies heavily _____ on others for food.

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 48. obstacle, 49. trunk, 50. transpired, 51. centimeter, 52. osmosis, 53. obtain, 54. branch, 55. rely

56. The sponge _____ water well.

v. to take in a fluid or other substance gradually

57. Completing this project in such a short amount of time will be a _____ task.

adj. requiring great strength, effort, or endurance; of or relating to the legendary strength of the ancient Greek hero Hercules

58. I want to _____ a toast in honor of our longstanding relationship.

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

59. The _____ for applying for a visa can be lengthy and complicated.

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

60. The researcher separated the nervous _____ for microscopic examinations.

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

61. Perseverance and optimism are _____ to success.

adj. necessary for the success or continued existence of something

62. The mountain range was a _____ obstacle for the hikers.

adj. causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration

63. The company is set to _____ its new product line next month.

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 56. absorbs, 57. herculean, 58. propose, 59. process, 60. tissue, 61. vital, 62. formidable, 63. launch

64. He stood to inherit a million-dollar _____.

n. a thing or things that belong to someone

65. The committee _____ several apparent inconsistencies.

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

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

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

67. The _____ morning made it hard to see the road ahead.

adj. characterized by, obscured by, or enveloped in mist or fog; hazy or unclear, often referring to the quality of a memory or thought

ANSWERS: 64. property, 65. investigated, 66. balance, 67. misty