

Englist.me



Vocabulary Builder Reference from...

Joao Pedro de Magalhaes: Why do animals have such different lifespans? | TED Talk

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

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

microscopic

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

synonym: infinitesimal, tiny, atomic

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

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

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

worm

n. a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes

(1) wiggly **worms**, (2) can of **worms**

Worms help dispose of the food waste produced by humans.

elegant

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

synonym: refined, sophisticated, graceful

(1) **elegant** design, (2) write **elegant** sentences

She wore an **elegant** evening gown to the gala.

equate

v. to consider or describe one thing as similar, equal, or analogous

synonym: associate, liken, relate

(1) **equate** mistakes with failure, (2) **equate** to legal responsibility

It isn't very reasonable to **equate** money with happiness.

tortoise

n. a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years

synonym: turtle, chelonian

(1) giant **tortoise**, (2) **tortoise** shell

The Galapagos **tortoise** is a fascinating creature with a long lifespan.

bowhead

n. a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw

synonym: whale, marine mammal

(1) Arctic **bowhead**, (2) **bowhead** hunt

The **bowhead** whale is known for its massive size and long lifespan.

whale

n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

synonym: porpoise, giant

(1) a bull **whale**, (2) **whale** watching

Some countries have a culture of eating the flesh of a **whale**.

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

gradual

adj. happening slowly over a long period of time or distance; not steep or abrupt

synonym : incremental, gradational, piecemeal

(1) a **gradual** process, (2) a **gradual** change

The country experienced a **gradual** increase in population.

degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym : deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

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.

vary

v. to become different in terms of size, shape, etc.

synonym : alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym : complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

ultimate

adj. furthest or highest in degree or order

synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

dysfunction

n. a problem or fault in a system, organism, or part of the body or machine

synonym : malfunction, disorder, disfunction

(1) **dysfunction** of kidneys, (2) brain **dysfunction**

The **dysfunction** in the relationship was causing problems for both partners.

constantly

adv. all the time

synonym : continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

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.

function

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

synonym : purpose, mapping, job

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

The brain is an incredibly complex organ that controls the body's **function**.

decline

v. to become gradually smaller, fewer, worse, etc.; to refuse to accept

synonym: descend, drop, deny

(1) **decline** a job offer, (2) **decline** in quality

As people age, their digestive capacity also gradually **declines**.

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.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

consistent

adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

synonym: coherent, constant, compatible

(1) do on a **consistent** basis, (2) get **consistent** results

You are not **consistent** in your behavior.

variance

n. the fact or quality that two or more things are different, divergent, or inconsistent; a difference between conflicting facts, claims, or opinions

synonym: difference, conflict, disagreement

(1) **variance** analysis, (2) having no **variance**

The article is at **variance** with the truth.

lifespan

n. the length of time for which a person, animal lives, or thing exists

synonym: duration, lifetime, continuance

(1) **lifespan** extension, (2) **lifespan** retrieval curve

Generally speaking, men have a shorter **lifespan** than women.

kingdom

n. the country ruled by a king or queen

synonym: empire, realm, land

(1) establish his **kingdom**, (2) a subordinate **kingdom**

By remaining neutral, this **kingdom** continued to exist.

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**.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

depth

n. the distance between the top and bottom of something; between the top surface and a distance below it

synonym: deepness, profoundness, extent

(1) **depth** camera, (2) the **depth** of the water

The pond's **depth** was around five feet.

Atlantic

adj. relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east

(1) **Atlantic** breeze, (2) **Atlantic** salmon

The **Atlantic** hurricane season runs from June to November each year.

arctic

adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

synonym: cold, frozen, polar

(1) **arctic** ice, (2) high **arctic**

Cold temperatures and long, dark winters characterize the **arctic** climate.

shark

n. a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

synonym: swindler, con artist, crook

(1) a man-eating **shark**, (2) card **shark**

He borrowed money from a loan **shark**.

clam

n. a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness

(1) giant **clam**, (2) shuck a **clam**

The **clam** digs through the sand to a significant depth.

impressive

adj. arousing admiration due to size, quality, or skill

synonym: impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

dwelling

n. a house or place that someone is living in
synonym: habitat, residence, home

(1) blood- **dwelling** parasitic animal, (2) the **dwelling** place of demons

They found a new species of water- **dwelling** insect.

ancient

adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

synonym: archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

sponge

n. a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning

(1) sea **sponge**, (2) metallic **sponge**

The tiny marine **sponge** has existed for more than 500 million years.

survive

v. to live or exist despite a dangerous event or period
synonym: endure, persist, stay

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

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

frigid

adj. extremely cold; lacking warmth or passion; emotionally detached or unresponsive

synonym: frosty, icy, glacial

(1) **frigid** climate, (2) **frigid** air

I had to wear multiple layers to survive the **frigid** temperatures outside.

heartbeat

n. the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

synonym : beat, pulse, force

(1) **heartbeat** abnormality, (2) a pounding **heartbeat**
New York is the commercial **heartbeat** of America.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**
Better sleep leads to increased **metabolism**.

longevity

n. the property of being long-lived; significant duration of service

synonym : seniority, endurance

(1) **longevity** crisis, (2) **longevity** genes
He is proud of the **longevity** of the business.

instance

n. a particular example or single occurrence of something

synonym : example, sample, illustration

(1) for **instance**, (2) notable **instance**
These articles cite five **instances** of climate change.

vole

n. a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas

synonym : field mouse, mouse, rodent

(1) **vole** population, (2) meadow **vole**
The woodland **vole** burrowed underground to hide from predators.

mechanics

n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

synonym : kinematics, dynamics

(1) **mechanics** equation, (2) **mechanics** of the game
He studied **mechanics** in college and now works as an engineer.

division

n. the act or outcome of splitting into separate parts; a critical organizational unit or sector

synonym: branch, separator, section

(1) cellular **division**, (2) **division** chief

Which **division** of the company do you work in?

divide

v. to separate or cause to separate into parts or groups

synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

dam

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

synonym: barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

expire

v. to come to the end of the period of validity of a document, authorization, agreement, etc.

synonym: run out, terminate, cease

(1) **expires** next month, (2) it will **expire**

I forgot to renew my driver's license, and it **expired**.

creature

n. a living being, especially an animal

synonym: being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

prone

adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

synonym: inclined, susceptible, liable

(1) accident- **prone**, (2) **prone** to diarrhea

He was **prone** to making rash decisions.

predator

n. an animal whose natural behavior is to prey on others
synonym: vulture, bloodsucker

(1) apex **predator**, (2) sexual **predators**

The native South American animals were in danger because of the **predator's** arrival.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

defend

v. to protect someone or something from attack, criticism, danger, etc.

synonym: protect, guard, support

(1) **defend** my country, (2) **defend** against a threat

International law allows each nation to **defend** itself when its rights and interests are illegally violated.

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

contrast

v. to put in opposition to show or emphasize differences
synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things
It's intriguing to compare and **contrast** the two authors.

fender

n. a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact

synonym: cover, bumper, cushion

(1) front **fender**, (2) vehicle **fender**
He had a **fender** bender last night.

luxury

n. a state of great comfort or sophistication, mainly provided by expensive and beautiful things

synonym: extravagance, indulgence, opulence

(1) get into the **luxury** car market, (2) **luxury** hotel
His anti- **luxury** practices were quite strict.

exception

n. something that is not included in a general rule or pattern; a person or thing that is excluded or stands apart from others

synonym: anomaly, rarity, exemption

(1) make an **exception**, (2) without **exception**

She was the **exception** to the rule, as she managed to graduate college in only two years.

bat

n. a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis

synonym: cane, rod, stick

(1) **bat** cave, (2) **bat** an eye

The cave was a habitat for **bats**.

mole

n. small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on

the skin

(1) **mole** catcher, (2) **mole** planted by the FBI

The **mole** burrowed in the ground.

adaptation

n. the action or process of changing to suit different conditions

synonym: adaption, adjustment, transformation

(1) **adaptation** ability, (2) language **adaptation**

The company's **adaptation** approach has been highly effective.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

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.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the **genetic** code.

threat

n. a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

synonym:

menace, danger, hazard

(1) economic **threat**, (2) environmental **threat**

The **threat** of severe weather prompted the city to issue an evacuation warning.

discrepancy

n. a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence

synonym: inconsistency, difference, disparity

(1) significant **discrepancy**, (2) a **discrepancy** in the report

There is a **discrepancy** between the study's findings and the collected data.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym: blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

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.

variability

n. the fact or quality of something being likely to vary

synonym: variance, unevenness, inconstancy

(1) natural **variability**, (2) climate **variability**

There is considerable **variability** in all the test scores.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked

through the garden.

inhabitant

n. a person or an animal that lives in a particular place
synonym: dweller, occupant, resident

(1) the early **inhabitants** of Europe, (2) **inhabitant** tax
His family is the oldest **inhabitant** of the island.

exposure

n. the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
synonym: vulnerability, disclosure, uncovering

(1) a southern **exposure**, (2) the **exposure** of a fraud
The long **exposure** to the air tarnished the antique tableware.

nutrition

n. the substances or the process that organisms take into their bodies as food for their growth and health
synonym: alimentation, nourishment, sustenance

(1) **nutrition** condition, (2) **nutrition** intake
This food contains all the **nutrition** your dog requires.

Session 2: Spelling

- | | |
|---------------------------------------|--|
| 1. a con_____ly innovative enterprise | <i>adv.</i> all the time |
| 2. climate var_____ty | <i>n.</i> the fact or quality of something being likely to vary |
| 3. the evo_____ary process | <i>adj.</i> relating to or denoting how living things develop or change from earlier forms |
| 4. m__e planted by the FBI | <i>n.</i> small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin |
| 5. chemical ad_____on | <i>n.</i> the act or process of adding something to something else; the process of adding numbers |
| 6. significant dis_____cy | <i>n.</i> a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence |
| 7. environmental th____t | <i>n.</i> a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation |
| 8. eq___e to legal responsibility | <i>v.</i> to consider or describe one thing as similar, equal, or analogous |
| 9. v__y according to the age | <i>v.</i> to become different in terms of size, shape, etc. |

ANSWERS: 1. constantly, 2. variability, 3. evolutionary, 4. mole, 5. addition, 6. discrepancy, 7. threat, 8. equate, 9. vary

10. de___d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.
11. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
12. notable in____ce *n.* a particular example or single occurrence of something
13. hu____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
14. li____an extension *n.* the length of time for which a person, animal lives, or thing exists
15. su____e a plane crash *v.* to live or exist despite a dangerous event or period
16. 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
17. brain dys____on *n.* a problem or fault in a system, organism, or part of the body or machine
18. vehicle fe___r *n.* a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
19. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 10. defend, 11. evolve, 12. instance, 13. humming, 14. lifespan, 15. survive, 16. process, 17. dysfunction, 18. fender, 19. feat

20. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
21. front fe___r *n.* a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
22. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
23. v__t desert *adj.* enormous in size, number, amount, or quantity
24. meadow v___e *n.* a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas
25. v__t majority *adj.* enormous in size, number, amount, or quantity
26. get con_____nt results *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
27. nu_____on intake *n.* the substances or the process that organisms take into their bodies as food for their growth and health
28. 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
29. a subordinate ki_____m *n.* the country ruled by a king or queen

ANSWERS: 20. dam, 21. fender, 22. microscopic, 23. vast, 24. vole, 25. vast, 26. consistent, 27. nutrition, 28. degree, 29. kingdom

30. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
31. get into the lu____y car market *n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things
32. de_____e a job offer *v.* to become gradually smaller, fewer, worse, etc.; to refuse to accept
33. a man-eating sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
34. the ul_____te goal in life *adj.* furthest or highest in degree or order
35. without ex_____on *n.* something that is not included in a general rule or pattern; a person or thing that is excluded or stands apart from others
36. metallic sp____e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
37. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
38. lo_____ty genes *n.* the property of being long-lived; significant duration of service
39. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
40. At_____ic salmon *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east

ANSWERS: 30. environment, 31. luxury, 32. decline, 33. shark, 34. ultimate, 35. exception, 36. sponge, 37. eventually, 38. longevity, 39. adapt, 40. Atlantic

41. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
42. it will ex____e *v.* to come to the end of the period of validity of a document, authorization, agreement, etc.
43. pr__e to diarrhea *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward
44. the ex_____re of a fraud *n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
45. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
46. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
47. a pounding he_____at *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
48. a southern ex_____re *n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret

ANSWERS: 41. mechanism, 42. expire, 43. prone, 44. exposure, 45. lab, 46. reproduce, 47. heartbeat, 48. exposure

49. a gr____l process *adj.* happening slowly over a long period of time or distance; not steep or abrupt
50. co____st with a decade ago *v.* to put in opposition to show or emphasize differences
51. the early inh____nts of Europe *n.* a person or an animal that lives in a particular place
52. immune fu____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
53. blood-dw____ng parasitic animal *n.* a house or place that someone is living in
54. lu____y hotel *n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things
55. having no va____ce *n.* the fact or quality that two or more things are different, divergent, or inconsistent; a difference between conflicting facts, claims, or opinions
56. defense me____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
57. accident-pr__e *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

ANSWERS: 49. gradual, 50. contrast, 51. inhabitant, 52. function, 53. dwelling, 54. luxury, 55. variance, 56. mechanism, 57. prone

58. high ar___c *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
59. di___e money equally *v.* to separate or cause to separate into parts or groups
60. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
61. wh__e watching *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
62. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
63. card sh__k *n.* a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest
64. co_____st two things *v.* to put in opposition to show or emphasize differences
65. ar___c ice *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
66. an_____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
67. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
68. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 58. arctic, 59. divide, 60. evolutionary, 61. whale, 62. feat, 63. shark, 64. contrast, 65. arctic, 66. ancient, 67. genetic, 68. microscopic

69. de___d my country *v.* to protect someone or something from attack, criticism, danger, etc.
70. a con_____ly varying mind *adv.* all the time
71. can of w__ms *n.* a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes
72. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
73. dys_____on of kidneys *n.* a problem or fault in a system, organism, or part of the body or machine
74. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
75. sexual pr_____ors *n.* an animal whose natural behavior is to prey on others
76. wiggly w__ms *n.* a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes
77. shuck a c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
78. cellular di_____on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
79. artificial cr_____re *n.* a living being, especially an animal
80. va_____ce analysis *n.* the fact or quality that two or more things are different, divergent, or inconsistent; a difference between conflicting facts, claims, or opinions

ANSWERS: 69. defend, 70. constantly, 71. worm, 72. divide, 73. dysfunction, 74. disease, 75. predator, 76. worm, 77. clam, 78. division, 79. creature, 80. variance

81. b_t cave *n.* a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis
82. v__y directly with the price *v.* to become different in terms of size, shape, etc.
83. el____t design *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
84. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
85. v__e population *n.* a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas
86. an imp_____ve array of facts *adj.* arousing admiration due to size, quality, or skill
87. inh_____nt tax *n.* a person or an animal that lives in a particular place
88. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
89. write el____t sentences *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
90. the ul____te luxury *adj.* furthest or highest in degree or order
91. de__h camera *n.* the distance between the top and bottom of something; between the top surface and a distance below it

ANSWERS: 81. bat, 82. vary, 83. elegant, 84. complicated, 85. vole, 86. impressive, 87. inhabitant, 88. lab, 89. elegant, 90. ultimate, 91. depth

92. the dw_____ng place of demons *n.* a house or place that someone is living in
93. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
94. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
95. giant to_____se *n.* a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years
96. li_____an retrieval curve *n.* the length of time for which a person, animal lives, or thing exists
97. eq___e mistakes with failure *v.* to consider or describe one thing as similar, equal, or analogous
98. nu_____on condition *n.* the substances or the process that organisms take into their bodies as food for their growth and health
99. b_t an eye *n.* a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis
100. a dis_____cy in the report *n.* a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence
101. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

ANSWERS: 92. dwelling, 93. humming, 94. define, 95. tortoise, 96. lifespan, 97. equate, 98. nutrition, 99. bat, 100. discrepancy, 101. reproduce

102. pre-Christian an_____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
103. lo_____ty crisis *n.* the property of being long-lived; significant duration of service
104. a gr_____l change *adj.* happening slowly over a long period of time or distance; not steep or abrupt
105. m__e catcher *n.* small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin
106. me_____cs equation *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
107. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
108. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
109. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
110. make an ex_____on *n.* something that is not included in a general rule or pattern; a person or thing that is excluded or stands apart from others

ANSWERS: 102. ancient, 103. longevity, 104. gradual, 105. mole, 106. mechanics, 107. metabolism, 108. metabolism, 109. addition, 110. exception

111. fr___d air *adj.* extremely cold; lacking warmth or passion; emotionally detached or unresponsive
112. re_____e one word with another *v.* to take the place of something
113. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
114. natural var_____ty *n.* the fact or quality of something being likely to vary
115. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
116. re_____e a phone *v.* to take the place of something
117. fr___d climate *adj.* extremely cold; lacking warmth or passion; emotionally detached or unresponsive
118. 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
119. for in_____ce *n.* a particular example or single occurrence of something
120. do on a con_____nt basis *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.

ANSWERS: 111. frigid, 112. replace, 113. eventually, 114. variability, 115. environment, 116. replace, 117. frigid, 118. process, 119. instance, 120. consistent

121. d_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
122. ada_____on ability *n.* the action or process of changing to suit different conditions
123. Arctic bo_____d *n.* a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
124. su_____e a blizzard *v.* to live or exist despite a dangerous event or period
125. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
126. bo_____d hunt *n.* a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
127. the de__h of the water *n.* the distance between the top and bottom of something; between the top surface and a distance below it
128. deg_____te into a disagreement *v.* (of a person, animal, or plant) to become worse in health or physical condition
129. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 121. dam, 122. adaptation, 123. bowhead, 124. survive, 125. impressive, 126. bowhead, 127. depth, 128. degenerate, 129. function

130. he_____at abnormality *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
131. cr_____re of habit *n.* a living being, especially an animal
132. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
133. ad__t as needed *v.* to make fit for or change to suit a new purpose or environment
134. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
135. sea sp____e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
136. economic th____t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
137. me_____cs of the game *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

ANSWERS: 130. heartbeat, 131. creature, 132. combination, 133. adapt, 134. disease, 135. sponge, 136. threat, 137. mechanics

138. apex pr____or *n.* an animal whose natural behavior is to prey on others
139. deg_____te into recession *v.* (of a person, animal, or plant) to become worse in health or physical condition
140. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
141. 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
142. to_____se shell *n.* a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years
143. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
144. a bull wh__e *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
145. language ada_____on *n.* the action or process of changing to suit different conditions
146. establish his ki_____m *n.* the country ruled by a king or queen
147. di_____on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector

ANSWERS: 138. predator, 139. degenerate, 140. evolve, 141. degree, 142. tortoise, 143. combination, 144. whale, 145. adaptation, 146. kingdom, 147. division

148. giant c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
149. de____e in quality *v.* to become gradually smaller, fewer, worse, etc.; to refuse to accept
150. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
151. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
152. ex___es next month *v.* to come to the end of the period of validity of a document, authorization, agreement, etc.
153. At____ic breeze *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
154. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 148. clam, 149. decline, 150. genetic, 151. define, 152. expire, 153. Atlantic, 154. complicated

Session 3: Fill in the Blanks

1. Better sleep leads to increased _____.
n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining
2. The doctor diagnosed him with a rare _____ that had no known cure.
n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
3. They have been living near water since _____ times.
adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
4. This food contains all the _____ your dog requires.
n. the substances or the process that organisms take into their bodies as food for their growth and health
5. Which _____ of the company do you work in?
n. the act or outcome of splitting into separate parts; a critical organizational unit or sector
6. He is proud of the _____ of the business.
n. the property of being long-lived; significant duration of service
7. The budget reduction was an _____ feat for our nation.
adj. arousing admiration due to size, quality, or skill
8. It's intriguing to compare and _____ the two authors.
v. to put in opposition to show or emphasize differences

ANSWERS: 1. metabolism, 2. disease, 3. ancient, 4. nutrition, 5. division, 6. longevity, 7. impressive, 8. contrast

9. Generally speaking, men have a shorter _____ than women.
n. the length of time for which a person, animal lives, or thing exists
10. Eyeless fish _____ in dark caves.
v. to develop gradually, or to cause the development of something or someone gradually
11. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
12. I advised him to _____ to his new surroundings.
v. to make fit for or change to suit a new purpose or environment
13. Understanding protein folding is a vital step in deciphering the _____ code.
adj. of or relating to genes (= parts of the DNA in cells) or the science of genes
14. Some countries have a culture of eating the flesh of a _____.
n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
15. Cold temperatures and long, dark winters characterize the _____ climate.
adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold
16. She was the _____ to the rule, as she managed to graduate college in only two years.
n. something that is not included in a general rule or pattern; a person or thing that is excluded or stands apart from others
17. His anti-_____ practices were quite strict.
n. a state of great comfort or sophistication, mainly provided by expensive and beautiful things

ANSWERS: 9. lifespan, 10. evolved, 11. vast, 12. adapt, 13. genetic, 14. whale, 15. arctic, 16. exception, 17. luxury

18. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
19. 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
20. She wore an _____ evening gown to the gala.
adj. pleasing and graceful in appearance or manner, or showing good taste and refinement
21. Can you _____ 123321 by eleven?
v. to separate or cause to separate into parts or groups
22. The tiny marine _____ has existed for more than 500 million years.
n. a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
23. His family is the oldest _____ of the island.
n. a person or an animal that lives in a particular place
24. The woodland _____ burrowed underground to hide from predators.
n. a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas
25. By dividing and creating copies of themselves, bacteria _____.
v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

ANSWERS: 18. eventually, 19. environment, 20. elegant, 21. divide, 22. sponge, 23. inhabitant, 24. vole, 25. reproduce

26. International law allows each nation to _____ itself when its rights and interests are illegally violated.
- v.* to protect someone or something from attack, criticism, danger, etc.
27. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers
28. The country experienced a _____ increase in population.
- adj.* happening slowly over a long period of time or distance; not steep or abrupt
29. The cave was a habitat for _____.
- n.* a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis
30. 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
31. The _____ in the relationship was causing problems for both partners.
- n.* a problem or fault in a system, organism, or part of the body or machine
32. 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
33. The company's _____ approach has been highly effective.
- n.* the action or process of changing to suit different conditions

ANSWERS: 26. defend, 27. addition, 28. gradual, 29. bats, 30. degree, 31. dysfunction, 32. process, 33. adaptation

34. 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
35. Eventually, the new design will _____ all older models.
- v.* to take the place of something
36. They found a new species of water-_____ insect.
- n.* a house or place that someone is living in
37. He did _____ pen-and-ink drawings in just a few days.
- adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
38. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
39. He had a _____ bender last night.
- n.* a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
40. The break in the _____ threatened the valley.
- n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
41. The _____ burrowed in the ground.
- n.* small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin

ANSWERS: 34. feat, 35. replace, 36. dwelling, 37. complicated, 38. lab, 39. fender, 40. dam, 41. mole

42. New York is the commercial _____ of America.
- n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
43. The pond's _____ was around five feet.
- n.* the distance between the top and bottom of something; between the top surface and a distance below it
44. I forgot to renew my driver's license, and it _____.
- v.* to come to the end of the period of validity of a document, authorization, agreement, etc.
45. The long _____ to the air tarnished the antique tableware.
- n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
46. The article is at _____ with the truth.
- n.* the fact or quality that two or more things are different, divergent, or inconsistent; a difference between conflicting facts, claims, or opinions
47. The _____ hurricane season runs from June to November each year.
- adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
48. The _____ digs through the sand to a significant depth.
- n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
49. I had to wear multiple layers to survive the _____ temperatures outside.
- adj.* extremely cold; lacking warmth or passion; emotionally detached or unresponsive

ANSWERS: 42. heartbeat, 43. depth, 44. expired, 45. exposure, 46. variance, 47. Atlantic, 48. clam, 49. frigid

50. The deep sea _____ was unlike anything the scientists had ever seen before.

n. a living being, especially an animal

51. By remaining neutral, this _____ continued to exist.

n. the country ruled by a king or queen

52. The mobile application industry is _____ changing.

adv. all the time

53. Maximum heart rates _____ a lot for each individual.

v. to become different in terms of size, shape, etc.

54. Management must take _____ responsibility for the accident.

adj. furthest or highest in degree or order

55. He borrowed money from a loan _____.

n. a long-bodied, mostly predatory marine fish that has sharp teeth and a pointed fin on its back; a person who is ruthless, greedy, and dishonest

56. _____ help dispose of the food waste produced by humans.

n. a long, thin creature with a soft and long cylindrical tube-like body, no limbs, and a lack of eyes

57. The _____ of the bees filled the air as she walked through the garden.

adj. producing a continuous, low, vibrating sound like that of the bee

58. He studied _____ in college and now works as an engineer.

n. the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

ANSWERS: 50. creature, 51. kingdom, 52. constantly, 53. vary, 54. ultimate, 55. shark, 56. Worms, 57. humming, 58. mechanics

59. These articles cite five _____ of climate change.
- n.* a particular example or single occurrence of something
60. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
61. It isn't very reasonable to _____ money with happiness.
- v.* to consider or describe one thing as similar, equal, or analogous
62. These birds can only _____ in temperate climates.
- v.* to live or exist despite a dangerous event or period
63. The _____ of severe weather prompted the city to issue an evacuation warning.
- n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
64. The native South American animals were in danger because of the _____ arrival.
- n.* an animal whose natural behavior is to prey on others
65. The _____ to the safe was a secret.
- n.* a collection of things that have been combined; an assemblage of separate parts or qualities
66. Inspectors noticed _____ cracks in the submarine's hull.
- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 59. instances, 60. function, 61. equate, 62. survive, 63. threat, 64. predator's, 65. combination, 66. microscopic

67. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something
68. He was _____ to making rash decisions.
adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward
69. There is considerable _____ in all the test scores.
n. the fact or quality of something being likely to vary
70. The _____ whale is known for its massive size and long lifespan.
n. a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
71. There is a _____ between the study's findings and the collected data.
n. a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence
72. _____ algorithms can find ways to optimize that humans do not anticipate.
adj. relating to or denoting how living things develop or change from earlier forms
73. As people age, their digestive capacity also gradually _____.
v. to become gradually smaller, fewer, worse, etc.; to refuse to accept
74. You are not _____ in your behavior.
adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

ANSWERS: 67. define, 68. prone, 69. variability, 70. bowhead, 71. discrepancy, 72. Evolutionary, 73. declines, 74. consistent

75. The once-thriving city has _____ into a crime-ridden slum.

v. (of a person, animal, or plant) to become worse in health or physical condition

76. He discovered unique _____ for photochemical reactions.

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

77. The Galapagos _____ is a fascinating creature with a long lifespan.

n. a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years

ANSWERS: 75. degenerated, 76. mechanisms, 77. tortoise