

# Englist.me



## Vocabulary Builder Reference from...

*Cheryl Hayashi: The magnificence of spider silk | TED Talk*

[https://www.ted.com/talks/cheryl\\_hayashi\\_the\\_magnificence\\_of\\_spider\\_silk](https://www.ted.com/talks/cheryl_hayashi_the_magnificence_of_spider_silk)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### magnificence

*n.* the quality or state of being extremely good, beautiful, or deserving to be admired

*synonym* : grandeur, splendor, elegance

(1) incomparable **magnificence**, (2) the **magnificence** of classical music

The **magnificence** of the palace was breathtaking.

### alpine

*adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain

*synonym* : mountain, highland, elevated

(1) **alpine** region, (2) **alpine** plant

We went on an exhilarating **alpine** adventure, climbing steep mountain slopes and glaciers.

### smudge

*n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes

*synonym* : blemish, mark, stain

(1) ink **smudge**, (2) lipstick **smudge**

She accidentally left a **smudge** on the newly painted wall.

- rev** *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute  
*synonym* : revolution, RPM, speed  
(1) low- **rev** engine, (2) **rev** up the crowd  
He stepped on the gas pedal, and the engine released a loud **rev**.
- grapple** *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons  
*synonym* : brawl, scuffle, wrestle  
(1) **grapple** with problem, (2) **grapple** with each other  
He needed to **grapple** with structural reforms to improve the company's revenue.
- beetle** *n.* an insect having a hard shell-like back covering its wings  
(1) **beetle** brows, (2) a **beetle** larva  
In ancient civilizations, the scarab **beetle** was worshiped as a sacred creature.
- primate** *n.* any mammal of the order Primates, which includes monkeys, apes, and humans  
*synonym* : ape, monkey, lemur  
(1) **primate** species, (2) **primate** sanctuary  
Many scientists study **primate** behavior and intelligence.
- timescale** *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process  
*synonym* : time frame, schedule, duration  
(1) long- **timescale**, (2) realistic **timescale**  
The **timescale** for completing the construction project is three years.

## divergence

*n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

*synonym*: divergency, deviation, discrepancy

(1) **divergence** angle, (2) ideological **divergence**

The **divergence** in opinions among the team members led to a delay in completing the project.

## chimpanzee

*n.* a small, very intelligent ape found in west and central Africa with black or brown fur

*synonym*: ape, chimp, pan troglodytes

(1) **chimpanzee** behavior, (2) **chimpanzee** society

Many zoos have **chimpanzee** exhibits, allowing visitors to observe these intelligent primates up close.

## orb

*n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars

*synonym*: globe, sphere, ball

(1) **orb** of light, (2) crystal **orb**

The planet Venus appeared as a bright **orb** in the sky during the night.

## 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.

## droplet

*n.* a small drop of liquid

*synonym*: bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

## spigot

*n.* a valve or faucet used to control the flow of liquid from a container or pipe

*synonym* : faucet, tap, valve

(1) shut off the **spigot**, (2) open the **spigot**

The **spigot** on the outdoor faucet was leaking and needed to be fixed.

## sac

*n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant

*synonym* : bag, pouch, knapsack

(1) **sac** contents, (2) abdominal **sac**

I placed my valuables in the **sac** before heading out on my hike.

## opportune

*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

*synonym* : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

## dissect

*v.* to cut into pieces to study the structure of something in detail

*synonym* : analyze, examine, study

(1) **dissect** the data, (2) **dissect** a personality

The scientist **dissected** the frog to study its internal organs.

## weave

*v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

*synonym* : braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

## bounty

*n.* a reward offered for capturing or killing someone or for accomplishing a specific task

*synonym* : reward, premium, recompense

(1) cash **bounty**, (2) a **bounty** on exports

The **bounty** hunter was hired to capture the notorious criminal and bring him to justice.

## translucent

*adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

*synonym* : semi-transparent, see-through

(1) **translucent** glass, (2) **translucent** skin

The sunlight shone through the **translucent** curtains, casting a warm glow in the room.

## depict

*v.* to illustrate someone or something in a photograph

*synonym* : illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation

His son had accurately **depicted** the bloom.

## flagellum

*n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement

*synonym* : cilia, whip, appendage

(1) **flagellum** structure, (2) bacterial **flagellum**

The **flagellum** of the sperm cells help it to move towards the egg.

## acinus

*n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances

*synonym* : alveolus, air sac, sacculus

(1) **acinus** of pancreas, (2) alveolar **acinus**

Each **acinus** in the salivary gland produces and secretes saliva.

## ampulla

*n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system

*synonym* : bulb, sac, vesicle

(1) **ampulla** of vater, (2) **ampulla** of the fallopian tube

The physician carefully inserted a catheter into the patient's **ampulla** to drain excess fluid.

## ancestor

*n.* a person from whom one is descended; a forefather

*synonym* : forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

## diverge

*v.* to move or extend in different directions from a common point; to branch off or deviate from a path or course

*synonym* : separate, split, part

(1) **diverge** from tradition, (2) **diverge** from the main topic

As tectonic plates **diverge**, new oceanic crust is formed along mid-ocean ridges.

## outlandish

*adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal

*synonym* : eccentric, bizarre, strange

(1) **outlandish** proposal, (2) **outlandish** behavior

The **outlandish** outfit drew the attention of everyone in the room.

## glycine

*n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms

*synonym* : glycogenic amino acid

(1) **glycine** supplement, (2) **glycine** metabolism

The protein contained a high **glycine** content, making it vital for specific metabolic reactions.

## phenylalanine

*n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological

processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

*synonym*: amino acid, Phe

(1) **phenylalanine** deficiency, (2) **phenylalanine** hydroxylase

Certain soft drinks and sugar-free products have warning label about their **phenylalanine** content.

## abbreviation

*n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use

*synonym*: short form, acronym, initialism

(1) currency **abbreviation**, (2) **abbreviation** of the full name  
In the medical field, service **abbreviation** refers to medical procedures, diagnoses, and medications.

## diversification

*n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability

*synonym*: variety, heterogeneity, assortment

(1) business **diversification**, (2) **diversification** of products  
The company's **diversification** strategy helped them weather the economic downturn.

## serine

*n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins

*synonym*: amino acid

(1) **serine** protease, (2) receptor **serine**

The high **serine** levels in the blood were an indicator of liver disease.

## quants

*n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

*synonym*: quantitative analysts, number crunchers, data scientists

(1) the team of **quants**, (2) industry **quants**

Many financial **quants** work in investment banks, using complex mathematical models to analyze financial data.

## tensile

*adj.* relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension

*synonym* : flexible, pliable, ductile

(1) **tensile** deformation, (2) **tensile** properties

The engineer tested the **tensile** strength of the metal to determine its durability.

## tug

*v.* to pull something quickly and hard, often several times

*synonym* : draw, jerk, pull

(1) **tug** a rope, (2) **tug** at his hand

This movie **tugs** at everyone's heartstrings.

## extensible

*adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened

*synonym* : flexible, expandable, adaptable

(1) **extensible** markup language, (2) **extensible** framework

The software has an **extensible** design, allowing for easy customization and future updates.

## trampoline

*n.* a strong fabric sheet attached by springs to a frame, used for bouncing on

*synonym* : rebounder, bouncer, springboard

(1) **trampoline** park, (2) **trampoline** jump

I love jumping on the **trampoline** in my backyard.

## intercept

*v.* to stop and catch someone or something to prevent them from continuing to a destination

*synonym* : ambush, block, prevent

(1) **intercept** an enemy force, (2) **intercept** X rays

It is illegal to **intercept** police radio.

## unexplored

*adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered



*synonym*: uncharted, undiscovered, untapped

(1) **unexplored** ideas, (2) **unexplored** cave

There are many **unexplored** regions of the ocean that scientists hope to study soon.

## hypothesize

v. to form or present a theory or explanation without sufficient evidence; to speculate

*synonym*: speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

## phylogenetics

n. the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics

*synonym*: evolutionary genetics, cladistics

(1) biogeographical **phylogenetics**, (2) **phylogenetics** tree

Her research focuses on molecular **phylogenetics**, which uses gene sequences to study evolutionary relationships.

## spit

v. to eject saliva or other liquid from the mouth

*synonym*: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

## lurk

v. to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

*synonym*: hide, creep, stalk

(1) **lurked** behind the words, (2) **lurk** in the darkness

In the city, the risk of traffic accidents **lurks** at every corner.

## immobilize

v. to render someone or something unable to move or function normally; to restrain, inhibit, or stop

*synonym*: incapacitate, paralyze, disable

(1) **immobilize** the city, (2) **immobilize** our opponent

The paramedics had to **immobilize** the accident victim to prevent further injury during transport to the hospital.

## venom

*n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging

*synonym*: poison, toxin, hating

(1) the **venom** of a lizard, (2) injected **venom**

The snake's **venom** is highly toxic and can be fatal to humans.

## domesticate

*v.* to take control of animals or plants to provide food, power, or company

*synonym*: tame, naturalize, cultivate

(1) easy to **domesticate**, (2) **domesticate** the plant

We **domesticate** cows to gain milk and meat.

## silkworm

*n.* the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk

*synonym*: silk spinner

(1) **silkworm** larvae, (2) **silkworm** breeding

The **silkworm's** cocoon contains the silk fibers used to make luxurious fabrics.

## surpass

*v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something

*synonym*: excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

## biomimetics

*n.* the study of natural systems and structures to create new technologies or improve existing ones

(1) **biomimetics** research, (2) **biomimetics** technology

The aircraft's design was inspired by **biomimetics** principles,

which allowed for improved aerodynamics and reduced fuel consumption.

## elicit

*v.* to obtain information or a reaction from someone, usually with difficulty

*synonym* : bring out, obtain, evoke

(1) **elicit** a confession, (2) **elicit** a solution

Have you **elicited** a response from them yet?

## biomedical

*adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

*synonym* : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

**Biomedical** engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

## tendon

*n.* a strong, fibrous cord of tissue that connects muscle to bone

*synonym* : tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

**Tendon** injuries are common among athletes.

## regrow

*v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation

*synonym* : regenerate

(1) **regrow** hair, (2) **regrow** vegetation

Lizards can **regrow** their tails if they are cut off.

## scaffold

*n.* a temporary platform or structure used to support workers and materials during construction or maintenance work

*synonym* : platform, staging, framework

(1) **scaffold** construction, (2) go to the **scaffold**

The construction workers set up the **scaffold** to reach the top

of the building.

## **ballistic**

*adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control

*synonym*: furious, explosive, enraged

(1) **ballistic** missile, (2) **ballistic** vest

The boss went **ballistic** when he found out we missed the deadline.

## Session 2: Spelling

1. une\_\_\_\_\_ed ideas *adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
2. long-ti\_\_\_\_\_le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
3. in\_\_\_\_\_pt X rays *v.* to stop and catch someone or something to prevent them from continuing to a destination
4. une\_\_\_\_\_ed cave *adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
5. abdominal s\_c *n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
6. s\_c contents *n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
7. a bo\_\_\_y on exports *n.* a reward offered for capturing or killing someone or for accomplishing a specific task
8. low-r\_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

ANSWERS: 1. unexplored, 2. timescale, 3. intercept, 4. unexplored, 5. sac, 6. sac, 7. bounty, 8. rev

- |                                   |           |  |
|-----------------------------------|-----------|--|
| 9. el___t a solution              | <i>v.</i> | to obtain information or a reaction from someone, usually with difficulty  |
| 10. phe_____ine hydroxylase       | <i>n.</i> | an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU) |
| 11. de___t a feeling of isolation | <i>v.</i> | to illustrate someone or something in a photograph   |
| 12. si_____rm larvae              | <i>n.</i> | the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk                       |
| 13. te___n collagen               | <i>n.</i> | a strong, fibrous cord of tissue that connects muscle to bone  |
| 14. abb_____ion of the full name  | <i>n.</i> | a shortened form of a word or phrase used to represent the whole, typically for ease of use  |
| 15. business div_____ion          | <i>n.</i> | the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability  |
| 16. pr_____e sanctuary            | <i>n.</i> | any mammal of the order Primates, which includes monkeys, apes, and humans   |
| 17. go to the sc_____ld           | <i>n.</i> | a temporary platform or structure used to support workers and materials during construction or maintenance work  |

ANSWERS: 9. elicit, 10. phenylalanine, 11. depict, 12. silkworm, 13. tendon, 14. abbreviation, 15. diversification, 16. primate, 17. scaffold

18. tra\_\_\_\_\_nt skin *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
19. r\_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
20. lipstick sm\_\_\_e *n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
21. dr\_\_\_\_\_t formation *n.* a small drop of liquid
22. su\_\_\_\_\_s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
23. be\_\_\_e brows *n.* an insect having a hard shell-like back covering its wings
24. t\_g at his hand *v.* to pull something quickly and hard, often several times
25. we\_\_e on a loom *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
26. div\_\_\_\_\_ce angle *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

ANSWERS: 18. translucent, 19. rev, 20. smudge, 21. droplet, 22. surpass, 23. beetle, 24. tug, 25. weave, 26. divergence

27. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
28. bio\_\_\_\_\_cs research *n.* the study of natural systems and structures to create new technologies or improve existing ones
29. al\_\_\_e plant *adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
30. cash bo\_\_\_y *n.* a reward offered for capturing or killing someone or for accomplishing a specific task
31. dr\_\_\_\_\_t size *n.* a small drop of liquid
32. imm\_\_\_\_\_ze our opponent *v.* to render someone or something unable to move or function normally; to restrain, inhibit, or stop
33. l\_\_k in the darkness *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
34. bio\_\_\_\_\_cs technology *n.* the study of natural systems and structures to create new technologies or improve existing ones
35. ac\_\_\_s of pancreas *n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances

ANSWERS: 27. opportune, 28. biomimetics, 29. alpine, 30. bounty, 31. droplet, 32. immobilize, 33. lurk, 34. biomimetics, 35. acinus



36. hyp\_\_\_\_\_ze what could have happened      *v.* to form or present a theory or explanation without sufficient evidence; to speculate
37. realistic ti\_\_\_\_\_le      *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
38. phy\_\_\_\_\_ics tree      *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
39. re\_\_\_w hair      *v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
40. di\_\_\_\_\_e from tradition      *v.* to move or extend in different directions from a common point; to branch off or deviate from a path or course
41. am\_\_\_\_\_a of the fallopian tube      *n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system
42. te\_\_\_\_\_e properties      *adj.* relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension

ANSWERS: 36. hypothesize, 37. timescale, 38. phylogenetics, 39. regrow, 40. diverge, 41. ampulla, 42. tensile

43. ba\_\_\_\_\_ic missile *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
44. receptor se\_\_\_\_e *n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins
45. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
46. al\_\_\_\_e region *adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
47. gl\_\_\_\_\_e supplement *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
48. sc\_\_\_\_\_ld construction *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
49. l\_\_ked behind the words *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
50. gl\_\_\_\_\_e metabolism *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
51. chi\_\_\_\_\_ee behavior *n.* a small, very intelligent ape found in west and central Africa with black or brown fur

ANSWERS: 43. ballistic, 44. serine, 45. opportune, 46. alpine, 47. glycine, 48. scaffold, 49. lurk, 50. glycine, 51. chimpanzee

52. ideological div\_\_\_\_\_ce      *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal
53. ba\_\_\_\_\_ic vest      *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
54. o\_b of light      *n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
55. cutting-edge bio\_\_\_\_\_al      *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
56. fi\_\_\_\_\_nt lamp      *n.* a thin wire or thread, especially one used to produce light in an electric bulb
57. biogeographical phy\_\_\_\_\_ics      *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
58. bio\_\_\_\_\_al assay      *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
59. re\_\_\_w vegetation      *v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
60. open the sp\_\_\_t      *n.* a valve or faucet used to control the flow of liquid from a container or pipe

ANSWERS: 52. divergence, 53. ballistic, 54. orb, 55. biomedical, 56. filament, 57. phylogenetics, 58. biomedical, 59. regrow, 60. spigot

61. gr\_\_\_\_\_e with each other      *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
62. in\_\_\_\_\_pt an enemy force      *v.* to stop and catch someone or something to prevent them from continuing to a destination
63. alveolar ac\_\_\_\_s      *n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances
64. the mag\_\_\_\_\_nce of classical music      *n.* the quality or state of being extremely good, beautiful, or deserving to be admired
65. si\_\_\_\_\_rm breeding      *n.* the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk
66. a be\_\_\_\_e larva      *n.* an insect having a hard shell-like back covering its wings
67. s\_\_t a bullet      *v.* to eject saliva or other liquid from the mouth
68. imm\_\_\_\_\_ze the city      *v.* to render someone or something unable to move or function normally; to restrain, inhibit, or stop
69. incomparable mag\_\_\_\_\_nce      *n.* the quality or state of being extremely good, beautiful, or deserving to be admired

ANSWERS: 61. grapple, 62. intercept, 63. acinus, 64. magnificence, 65. silkworm, 66. beetle, 67. spit, 68. immobilize, 69. magnificence

70. out\_\_\_\_\_sh behavior *adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
71. te\_\_\_n grafting *n.* a strong, fibrous cord of tissue that connects muscle to bone
72. gr\_\_\_\_\_e with problem *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
73. hyp\_\_\_\_\_ze as to outcomes *v.* to form or present a theory or explanation without sufficient evidence; to speculate
74. an\_\_\_\_\_or language *n.* a person from whom one is descended; a forefather
75. di\_\_\_\_\_t the data *v.* to cut into pieces to study the structure of something in detail
76. we\_\_\_e a story *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
77. su\_\_\_\_\_s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
78. di\_\_\_\_\_e from the main topic *v.* to move or extend in different directions from a common point; to branch off or deviate from a path or course
79. industry qu\_\_\_\_\_s *n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

ANSWERS: 70. outlandish, 71. tendon, 72. grapple, 73. hypothesize, 74. ancestor, 75. dissect, 76. weave, 77. surpass, 78. diverge, 79. quants

80. ext\_\_\_\_\_le framework *adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened
81. am\_\_\_\_\_a of vater *n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system
82. s\_\_t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
83. carbon fi\_\_\_\_\_nt *n.* a thin wire or thread, especially one used to produce light in an electric bulb
84. crystal o\_b *n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
85. tra\_\_\_\_\_ne jump *n.* a strong fabric sheet attached by springs to a frame, used for bouncing on
86. di\_\_\_\_\_t a personality *v.* to cut into pieces to study the structure of something in detail
87. pr\_\_\_\_\_e species *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
88. de\_\_\_\_\_t a scene *v.* to illustrate someone or something in a photograph
89. div\_\_\_\_\_ion of products *n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability

ANSWERS: 80. extensible, 81. ampulla, 82. spit, 83. filament, 84. orb, 85. trampoline, 86. dissect, 87. primate, 88. depict, 89. diversification

90. the team of qu\_\_\_s *n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions
91. shut off the sp\_\_\_t *n.* a valve or faucet used to control the flow of liquid from a container or pipe
92. the ve\_\_m of a lizard *n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
93. el\_\_\_t a confession *v.* to obtain information or a reaction from someone, usually with difficulty
94. tra\_\_\_\_\_nt glass *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
95. bacterial fl\_\_\_\_\_um *n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement
96. tra\_\_\_\_\_ne park *n.* a strong fabric sheet attached by springs to a frame, used for bouncing on
97. se\_\_\_e protease *n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins
98. phe\_\_\_\_\_ine deficiency *n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

ANSWERS: 90. quants, 91. spigot, 92. venom, 93. elicit, 94. translucent, 95. flagellum, 96. trampoline, 97. serine, 98. phenylalanine

99. fl\_\_\_\_\_um structure *n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement
100. out\_\_\_\_\_sh proposal *adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
101. injected ve\_\_m *n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
102. dom\_\_\_\_\_te the plant *v.* to take control of animals or plants to provide food, power, or company
103. t\_g a rope *v.* to pull something quickly and hard, often several times
104. ink sm\_\_\_e *n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
105. easy to dom\_\_\_\_\_te *v.* to take control of animals or plants to provide food, power, or company
106. chi\_\_\_\_\_ee society *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
107. currency abb\_\_\_\_\_ion *n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use

ANSWERS: 99. flagellum, 100. outlandish, 101. venom, 102. domesticate, 103. tug, 104. smudge, 105. domesticate, 106. chimpanzee, 107. abbreviation



108. earliest human an\_\_\_\_\_or                    *n.* a person from whom one is descended;  
a forefather
109. te\_\_\_\_\_e deformation                    *adj.* relating to the ability of a material or  
structure to stretch or bend without  
breaking or losing its shape; having  
great strength or flexibility under tension
110. ext\_\_\_\_\_le markup language                    *adj.* capable of being extended, stretched,  
or expanded; able to be enlarged,  
broadened, or lengthened

ANSWERS: 108. ancestor, 109. tensile, 110. extensible

## Session 3: Fill in the Blanks

1. \_\_\_\_\_ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.  
*adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
2. The paramedics had to \_\_\_\_\_ the accident victim to prevent further injury during transport to the hospital.  
*v.* to render someone or something unable to move or function normally; to restrain, inhibit, or stop
3. The boss went \_\_\_\_\_ when he found out we missed the deadline.  
*adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
4. This movie \_\_\_\_\_ at everyone's heartstrings.  
*v.* to pull something quickly and hard, often several times
5. I placed my valuables in the \_\_\_\_\_ before heading out on my hike.  
*n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
6. Each \_\_\_\_\_ in the salivary gland produces and secretes saliva.  
*n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances
7. The scientist \_\_\_\_\_ the frog to study its internal organs.  
*v.* to cut into pieces to study the structure of something in detail

ANSWERS: 1. Biomedical, 2. immobilize, 3. ballistic, 4. tugs, 5. sac, 6. acinus, 7. dissected

8. We went on an exhilarating \_\_\_\_\_ adventure, climbing steep mountain slopes and glaciers.  
*adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
9. The \_\_\_\_\_ cocoon contains the silk fibers used to make luxurious fabrics.  
*n.* the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk
10. The construction workers set up the \_\_\_\_\_ to reach the top of the building.  
*n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
11. The protein contained a high \_\_\_\_\_ content, making it vital for specific metabolic reactions.  
*n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
12. His son had accurately \_\_\_\_\_ the bloom.  
*v.* to illustrate someone or something in a photograph
13. We \_\_\_\_\_ cows to gain milk and meat.  
*v.* to take control of animals or plants to provide food, power, or company
14. She tried to \_\_\_\_\_ out the gum that she had been chewing.  
*v.* to eject saliva or other liquid from the mouth
15. 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

ANSWERS: 8. alpine, 9. silkworm's, 10. scaffold, 11. glycine, 12. depicted, 13. domesticate, 14. spit, 15. filament

16. As tectonic plates \_\_\_\_\_ new oceanic crust is formed along mid-ocean ridges.
- v.* to move or extend in different directions from a common point; to branch off or deviate from a path or course
17. My remote \_\_\_\_\_ immigrated to the United States from Ireland in the 1800s.
- n.* a person from whom one is descended; a forefather
18. A single \_\_\_\_\_ of water can reflect the entire world upside down.
- n.* a small drop of liquid
19. The sunlight shone through the \_\_\_\_\_ curtains, casting a warm glow in the room.
- adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
20. She accidentally left a \_\_\_\_\_ on the newly painted wall.
- n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
21. The girl \_\_\_\_\_ a garland for her friend.
- v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
22. The athlete's record-breaking performance \_\_\_\_\_ all expectations.
- v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
23. In ancient civilizations, the scarab \_\_\_\_\_ was worshiped as a sacred creature.
- n.* an insect having a hard shell-like back covering its wings

ANSWERS: 16. diverge, 17. ancestor, 18. droplet, 19. translucent, 20. smudge, 21. weaves, 22. surpassed, 23. beetle

24. He stepped on the gas pedal, and the engine released a loud \_\_\_\_.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
25. Many scientists study \_\_\_\_\_ behavior and intelligence.
- n.* any mammal of the order Primates, which includes monkeys, apes, and humans
26. There are many \_\_\_\_\_ regions of the ocean that scientists hope to study soon.
- adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
27. The snake's \_\_\_\_\_ is highly toxic and can be fatal to humans.
- n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
28. The \_\_\_\_\_ hunter was hired to capture the notorious criminal and bring him to justice.
- n.* a reward offered for capturing or killing someone or for accomplishing a specific task
29. He needed to \_\_\_\_\_ with structural reforms to improve the company's revenue.
- v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
30. The high \_\_\_\_\_ levels in the blood were an indicator of liver disease.
- n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins

ANSWERS: 24. rev, 25. primate, 26. unexplored, 27. venom, 28. bounty, 29. grapple, 30. serine

31. The engineer tested the \_\_\_\_\_ strength of the metal to determine its durability.  
*adj.* relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
32. Many financial \_\_\_\_\_ work in investment banks, using complex mathematical models to analyze financial data.  
*n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions
33. In the medical field, service \_\_\_\_\_ refers to medical procedures, diagnoses, and medications.  
*n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use
34. I love jumping on the \_\_\_\_\_ in my backyard.  
*n.* a strong fabric sheet attached by springs to a frame, used for bouncing on
35. Many zoos have \_\_\_\_\_ exhibits, allowing visitors to observe these intelligent primates up close.  
*n.* a small, very intelligent ape found in west and central Africa with black or brown fur
36. Certain soft drinks and sugar-free products have warning label about their \_\_\_\_\_ content.  
*n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)
37. The software has an \_\_\_\_\_ design, allowing for easy customization and future updates.  
*adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened

ANSWERS: 31. tensile, 32. quants, 33. abbreviation, 34. trampoline, 35. chimpanzee, 36. phenylalanine, 37. extensible

38. In the city, the risk of traffic accidents \_\_\_\_\_ at every corner.
- v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
39. Scientists \_\_\_\_\_ that the new fish species evolved to survive in deep-sea environments.
- v.* to form or present a theory or explanation without sufficient evidence; to speculate
40. The aircraft's design was inspired by \_\_\_\_\_ principles, which allowed for improved aerodynamics and reduced fuel consumption.
- n.* the study of natural systems and structures to create new technologies or improve existing ones
41. The planet Venus appeared as a bright \_\_\_\_ in the sky during the night.
- n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
42. Her research focuses on molecular \_\_\_\_\_ which uses gene sequences to study evolutionary relationships.
- n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
43. Lizards can \_\_\_\_\_ their tails if they are cut off.
- v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
44. The phone rang at the most \_\_\_\_\_ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 38. lurks, 39. hypothesize, 40. biomimetics, 41. orb, 42. phylogenetics, 43. regrow, 44. opportune

45. The \_\_\_\_\_ on the outdoor faucet was leaking and needed to be fixed.  
*n.* a valve or faucet used to control the flow of liquid from a container or pipe
46. The physician carefully inserted a catheter into the patient's \_\_\_\_\_ to drain excess fluid.  
*n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system
47. The \_\_\_\_\_ outfit drew the attention of everyone in the room.  
*adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
48. The \_\_\_\_\_ in opinions among the team members led to a delay in completing the project.  
*n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal
49. \_\_\_\_\_ injuries are common among athletes.  
*n.* a strong, fibrous cord of tissue that connects muscle to bone
50. The \_\_\_\_\_ for completing the construction project is three years.  
*n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
51. It is illegal to \_\_\_\_\_ police radio.  
*v.* to stop and catch someone or something to prevent them from continuing to a destination

ANSWERS: 45. spigot, 46. ampulla, 47. outlandish, 48. divergence, 49. Tendon, 50. timescale, 51. intercept



52. The company's \_\_\_\_\_ strategy helped them weather the economic downturn.
- n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability
53. The \_\_\_\_\_ of the sperm cells help it to move towards the egg.
- n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement
54. The \_\_\_\_\_ of the palace was breathtaking.
- n.* the quality or state of being extremely good, beautiful, or deserving to be admired
55. Have you \_\_\_\_\_ a response from them yet?
- v.* to obtain information or a reaction from someone, usually with difficulty

ANSWERS: 52. diversification, 53. flagellum, 54. magnificence, 55. elicited