

# Englist.me



## Vocabulary Builder Reference from...

Chuck Murry: Can we regenerate heart muscle with stem cells? | TED Talk

[https://www.ted.com/talks/chuck\\_murry\\_can\\_we\\_regenerate\\_heart\\_muscle\\_with\\_stem\\_cells](https://www.ted.com/talks/chuck_murry_can_we_regenerate_heart_muscle_with_stem_cells)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### donna

*n.* (also used as "prima donna") a title of respect given in Italy to a woman of rank or nobility; a woman of distinction or importance

*synonym*: woman, lady, female

(1) prima **donna** attitude, (2) prima **donna** personality

Her prima **donna** behavior on the movie set was well known, making it difficult for directors to work with her.

### matriarch

*n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group

*synonym*: leader, head, founder

(1) ruled by a **matriarch**, (2) **matriarch** figure

The **matriarch** of the family was known for her wisdom and guidance.

### electrocardiogram

*n.* a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity

*synonym*: ECG, heart monitor, cardiac monitor

(1) **electrocardiogram** technician, (2) abnormal **electrocardiogram**

The hospital invested in state-of-the-art **electrocardiogram**

machines to improve patient care.

## myocardial

*adj.* relating to the muscular tissue of the heart

*synonym*: cardiac, heart-related, ventricular

(1) **myocardial** infarction, (2) **myocardial** fibrosis

The physical examination revealed no abnormalities in the patient's **myocardial** structure.

## infarction

*n.* the obstruction or blockage of blood flow to a specific area or organ, leading to tissue damage or death, commonly used to describe a myocardial infarction (heart attack)

*synonym*: heart attack, coronary, thrombosis

(1) acute **infarction**, (2) cerebral **infarction**

Time is critical when treating a myocardial **infarction**.

## parlance

*n.* the way in which a particular group or community uses language; the specific terms, expressions, and jargon used by people in a particular field, profession, or social group

*synonym*: jargon, vernacular, dialect

(1) legal **parlance**, (2) common **parlance**

In medical **parlance**, a heart attack is a myocardial infarction.

## wane

*v.* to decrease in size, strength, or intensity

*synonym*: decrease, diminish, fade

(1) **wane** over time, (2) **wane** in popularity

The fragrance of this material **wanes** over weeks to months.

## grandkid

*n.* the grandchildren of a particular person

*synonym*: grandchildren, grandnieces, grandnephews

(1) spend the weekend with their **grandkids**, (2) cute **grandkids**

She was so proud of her **grandkids**, who were all doing well in school and had great personalities.

## grandchild

*n.* a child of someone's son or daughter

*synonym* : offspring, descendant, progeny

(1) **grandchild-grandparent** relationship, (2) **grandchild** development

The grandparents take care of their **grandchild** while the parents are at work.

## arrhythmia

*n.* a medical condition in which the heartbeat is irregular, too slow, or too fast, which can cause the heart to pump blood less effectively and lead to a variety of symptoms such as palpitations, fatigue, shortness of breath, chest pain, or even fainting

*synonym* : irregular heartbeat, dysrhythmia, arrhythmic disorder

(1) **arrhythmia** treatment, (2) heart **arrhythmia**

The patient was diagnosed with an **arrhythmia**, causing irregular heartbeats.

## regenerative

*adj.* tending to regrow or restore lost or injured tissue

*synonym* : rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

## clot

*n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

*synonym* : clump, coagulation, thrombus

(1) blood **clot**, (2) **clot** prevention

The **clot** in the blood vessel required immediate medical attention.

## corona

*n.* a crown-shaped structure, often referring to the outermost layer of the Sun's atmosphere; a family of viruses known as coronaviruses; a halo or aura around a celestial body; a circular pattern or shape

*synonym* : crown, halo, circle

(1) **corona** layer, (2) **corona** outbreak

The **corona** virus has caused a global pandemic.

## scar

*n.* a mark that remains on the skin after a wound has healed

*synonym*: blemish, imperfection, blotch

(1) burn **scar**, (2) carry a **scar**

Even after the wound has healed, a **scar** remains.

## imbalance

*n.* a situation in which two or more things are not equal or equally treated

*synonym*: inequality, asymmetry, instability

(1) trade **imbalance**, (2) symptoms of hormonal **imbalance**

An **imbalance** in certain substances causes problems with brain function.

## crux

*n.* the most important or fundamental part of a matter or situation; the key point or central issue

*synonym*: heart, core, essence

(1) main **crux**, (2) the **crux** of the argument

The **crux** of the matter was that the company was not financially stable.

## shrug

*v.* to raise your shoulders and then drop them to say you do not know or are not interested

(1) **shrug** off the importance, (2) **shrug** his shoulders sadly  
I respect her ability to **shrug** off harsh criticism.

## chuck

*v.* to throw something carelessly or casually; to get rid of something or someone

*synonym*: toss, throw, discard

(1) **chuck** the ball across the yard, (2) **chuck** my job

I will **chuck** these old shoes in the trash and buy a new pair.

## resigned

*adj.* having accepted something unpleasant or difficult, particularly a job or situation, without complaint or resistance; accepting one's fate or circumstances

*synonym*: submissive, acquiescent, passive

(1) with a **resigned** voice, (2) **resigned** to their fate  
She had a **resigned** look on her face when she realized that she had lost the race.

**quo** *n.* the existing state or condition of something, especially in relation to a particular situation or issue

*synonym*: status, condition, state

(1) status **quo** politician, (2) **quo** warranto

The company has been successful in maintaining the status **quo**.

**medicinal** *adj.* of or relating to the treatment or cure of disease

*synonym*: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

**belie** *v.* to contradict or show to be false or untrue; to give a false impression or disguise the true nature of something

*synonym*: disprove, refute, contradict

(1) **belie** his expectations, (2) **belies** the impact of the speaker's words

The peaceful surroundings **belied** the danger lurking just around the corner.

**crank** *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person

*synonym*: eccentric, oddball, kook

(1) **crank** handle, (2) **crank** caller

The fishing reel had a **crank** that made it easy to reel in the catch.

**pluripotent** *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

*synonym* : versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

**Pluripotent** stem cells can differentiate into any cell in the body.

## applaud

v. to express approval of someone or something by clapping the hands

*synonym* : clap, celebrate, praise

(1) **applaud** his courage, (2) **applaud** the orchestra  
I enthusiastically **applaud** my rival's achievement.

## clump

n. a small group of bushes, trees, flowers, people, etc.

*synonym* : cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

## cartilage

n. a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose

*synonym* : connective tissue, gristle, fibrocartilage

(1) **cartilage** damage, (2) nasal **cartilage**

The knee joint is supported by **cartilage**, which helps absorb shock and prevent bone damage.

## intestine

n. a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

*synonym* : gut, bowel, tract

(1) large **intestine**, (2) **intestine** wall

The small **intestine** is responsible for absorbing most of the nutrients from food.

## coax

v. to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly

*synonym* : persuade, cajole, lure

(1) **coax** a confession, (2) **coax** a smile

She tried to **coax** her cat out of the tree with a can of tuna.

## embryonic

*adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

*synonym* : embryonal

(1) **embryonic** stem cells, (2) **embryonic** development

The project is still in its **embryonic** stage.

## embryology

*n.* the branch of biology that studies the development of an embryo from the fertilization of the egg cell until birth or hatching

*synonym* : developmental biology, organismal biology

(1) **embryology** research, (2) human **embryology**

The advancement of **embryology** provides us with a better understanding of genetics and human reproduction.

## ponder

*v.* to think deeply or carefully about something

*synonym* : think about, consider, reflect on

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

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

## fertilize

*v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

*synonym* : pollinate, inseminate, enrich

(1) **fertilize** the soil, (2) **fertilize** the female egg

The couple decided to use the non-husband sperm to **fertilize** a wife.

## shameless

*adj.* without shame or embarrassment; showing no remorse or guilt for one's actions or behaviors

*synonym* : brazen, unashamed, audacious

(1) **shameless** behavior, (2) **shameless** liar

He acted in a **shameless** way, not caring that his actions hurt

others.

## abscond

v. to leave hurriedly and secretly, especially to avoid getting into trouble or facing consequences

*synonym*: flee, escape, run away

(1) **abscond** with money, (2) **abscond** from home

The suspect **absconded** from the police station before they could be arrested.

## organoid

n. a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

*synonym*: tissue, cell culture, organ culture

(1) **organoid** culture, (2) **organoid** research

The development of **organoids** has opened up new avenues for research into the early stages of fetal development

## twitch

v. to make a sudden and quick movement with a part of the body; (noun) a sudden, small, jerky movement of a muscle or part of the body

*synonym*: spasm, jerk, flinch

(1) **twitch** at his sleeve, (2) **twitch** of an eye

She couldn't stop her leg from **twitching** nervously.

## jellyfish

n. a marine creature with a soft, jelly-like body and tentacles for stinging

*synonym*: medusa, sea nettle, moon jelly

(1) spineless **jellyfish**, (2) **jellyfish** sting

The beach was filled with hundreds of **jellyfish**, so swimming was not recommended.

## splice

v. to join or connect two or more pieces or lengths of something, especially by twisting or interweaving them; to get married

*synonym*: join, connect, unite

(1) **splice** a gene, (2) **splice** the old and new sections

I need to **splice** these two wires together to complete the



circuit.

## persevere

*v.* to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

*synonym* : persist, endure, continue

(1) **persevere** through hardships, (2) **persevere** in my goals  
Even when faced with challenges, it's important to **persevere** and never give up.

## biochemical

*adj.* relating to the chemical processes and substances that occur within living organisms

*synonym* : molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical**  
**Biochemical** research is essential to understanding the complex chemical reactions in living organisms.

## synchronous

*adj.* occurring or operating at the same time or pace; happening simultaneously; coordinated or synchronized

*synonym* : simultaneous, concurrent, parallel

(1) **synchronous** communication, (2) **synchronous** learning

The group of performers perfectly executed the **synchronous** dance routine.

## guinea

*n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

*synonym* : coin, money, currency

(1) **guinea** coins, (2) **guinea** pig

The cost of the antique vase is three **guineas**.

## graft

*n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

*synonym* : transplant, implantation, bribery

(1) **graft** surgery, (2) anti- **graft** law

The patient's skin **graft** procedure was successful, and he was released from the hospital.

## 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.

## pacemaker

*n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

*synonym* : heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery

Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

## lockstep

*n.* a way of walking in which people's strides are perfectly synchronized; rigid conformity to a particular plan or set of actions

*synonym* : uniformity, synchronicity, conformity

(1) follow the rules in **lockstep**, (2) work in **lockstep**

The dancers moved in **lockstep**, perfectly synchronized with one another.

## macaque

*n.* any of the various short-tailed monkeys found in Asia and Africa, typically living in large groups and known for their intelligence and adaptability

*synonym* : macaca, macaca monkey

(1) **macaque** monkey, (2) **macaque** species

The rhesus **macaque** is one of the biomedical research's most widely used animal models.

## 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.

## saline

*adj.* containing salt; of or relating to chemical salts

*synonym*: salty, briny, brackish

(1) a **saline** lake, (2) irrigation with **saline**

The drug is dissolved in a **saline** solution.

## populate

*v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information

*synonym*: inhabit, occupy, dwell

(1) **populate** the countryside, (2) **populate** the spreadsheet

Deer, squirrels, and birds primarily **populate** the forest.

## recap

*v.* to repeat or summarize what has been said, decided, etc.

*synonym*: outline, summarize, abstract

(1) **recap** key points, (2) **recap** briefly

Let me quickly **recap** these results.

## roadblock

*n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective

*synonym*: obstacle, barrier, blockade

(1) biological **roadblock**, (2) bypass **roadblock**

The accident caused a **roadblock** on the highway, causing traffic to come to a standstill.

## ventricle

*n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

*synonym* : chamber, pumping heart muscle

(1) left **ventricle**, (2) **ventricle** in the brain

The heart's **ventricles** are responsible for pumping blood out to the body.

## **gaggle**

*n.* a group or flock of wild geese; a gathering of people, particularly when noisy or in disarray

*synonym* : flock, group, crowd

(1) **gaggle** of tourists, (2) **gaggle** of ducks

A **gaggle** of geese took off from the pond and flew overhead.

## **orderly**

*adj.* clean or organized in a neat, careful and logical way

*synonym* : tidy, tidied, neat

(1) **orderly** and fair market, (2) **orderly** manner

The elections were handled in a timely and **orderly** manner.

## **rein**

*n.* a long, narrow strap attached to a horse's bit, used to control the animal while riding; a means of controlling or limiting something or someone's actions and behavior; (verb) to control or restrain something, especially something that is becoming excessive or out of control

*synonym* : strap, harness, headstall

(1) tight **rein**, (2) **rein** in costs

The new driver struggled to keep a firm grip on the **rein** as the horse bolted.

## **eject**

*v.* to force someone to put out or leave a particular place or position

*synonym* : discharge, expel, emit

(1) **eject** a player from a game, (2) **eject** huge amounts of pollutant

Our immune system can **eject** disease germs from the body.

## **spontaneously**

*adv.* in a way that is natural, not planned or forced, and often sudden

*synonym* : impromptu, automatically, immediately

(1) recover **spontaneously** after five days, (2) this shift

occurs **spontaneously**

The electrical cord **spontaneously** combusted.

## **presume**

v. to suppose or assume something to be true, often without sufficient evidence or proof; to take liberties, behave impolitely, or overstep one's bounds, often due to arrogance or ignorance

*synonym* : assume, suppose, guess

(1) **presume** innocence, (2) **presume** on his tolerance

I **presume** you've already made plans for the weekend since you didn't respond to my invitation.

## **envision**

v. to imagine or expect what a situation will be like in the future

*synonym* : anticipate, foresee, picture

(1) **envision** the future, (2) **envision** the project's success

We cannot **envision** her as President.

## **vaccinate**

v. to treat with a vaccine, usually by injection, to produce immunity against a disease

*synonym* : immunize, inject, inoculate

(1) **vaccinate** against scarlet fever, (2) **vaccinate** every year

The nurse **vaccinated** the children in the school.

## Session 2: Spelling

1. r\_\_n in costs *n.* a long, narrow strap attached to a horse's bit, used to control the animal while riding; a means of controlling or limiting something or someone's actions and behavior; (verb) to control or restrain something, especially something that is becoming excessive or out of control
  
2. gra\_\_\_\_\_ld-grandparent relationship *n.* a child of someone's son or daughter
  
3. sp\_\_\_e a gene *v.* to join or connect two or more pieces or lengths of something, especially by twisting or interweaving them; to get married
  
4. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
  
5. mic\_\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
  
6. reg\_\_\_\_\_ive medicine *adj.* tending to regrow or restore lost or injured tissue
  
7. traditional me\_\_\_\_\_al *adj.* of or relating to the treatment or cure of disease
  
8. cr\_\_k handle *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
  
9. em\_\_\_\_\_ic development *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

ANSWERS: 1. rein, 2. grandchild, 3. splice, 4. medicinal, 5. microscopic, 6. regenerative, 7. medicinal, 8. crank, 9. embryonic

- |                                |  |
|--------------------------------|--|
| 10. burn s__r                  | <i>n.</i> a mark that remains on the skin after a wound has healed   |
| 11. complex bio_____al         | <i>adj.</i> relating to the chemical processes and substances that occur within living organisms   |
| 12. cute gr_____ids            | <i>n.</i> the grandchildren of a particular person   |
| 13. blood c__t                 | <i>n.</i> a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force                       |
| 14. ej__t a player from a game | <i>v.</i> to force someone to put out or leave a particular place or position  |
| 15. gra_____ld development     | <i>n.</i> a child of someone's son or daughter   |
| 16. ch__k my job               | <i>v.</i> to throw something carelessly or casually; to get rid of something or someone  |
| 17. ab_____d from home         | <i>v.</i> to leave hurriedly and secretly, especially to avoid getting into trouble or facing consequences   |
| 18. re__p key points           | <i>v.</i> to repeat or summarize what has been said, decided, etc.   |
| 19. acute inf_____on           | <i>n.</i> the obstruction or blockage of blood flow to a specific area or organ, leading to tissue damage or death, commonly used to describe a myocardial infarction (heart attack) |
| 20. ma_____e species           | <i>n.</i> any of the various short-tailed monkeys found in Asia and Africa, typically living in large groups and known for their intelligence and adaptability                       |

ANSWERS: 10. scar, 11. biochemical, 12. grandkid, 13. clot, 14. eject, 15. grandchild, 16. chuck, 17. abscond, 18. recap, 19. infarction, 20. macaque

21. pa\_\_\_\_\_er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
22. cr\_\_k caller *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
23. the c\_\_x of the argument *n.* the most important or fundamental part of a matter or situation; the key point or central issue
24. plu\_\_\_\_\_nt embryonic cells *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
25. sh\_\_g his shoulders sadly *v.* to raise your shoulders and then drop them to say you do not know or are not interested
26. co\_\_\_a layer *n.* a crown-shaped structure, often referring to the outermost layer of the Sun's atmosphere; a family of viruses known as coronaviruses; a halo or aura around a celestial body; a circular pattern or shape
27. sp\_\_\_e the old and new sections *v.* to join or connect two or more pieces or lengths of something, especially by twisting or interweaving them; to get married
28. pe\_\_\_\_\_re through hardships *v.* to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

ANSWERS: 21. pacemaker, 22. crank, 23. crux, 24. pluripotent, 25. shrug, 26. corona, 27. splice, 28. persevere



29. a cl\_\_p of trees *n.* a small group of bushes, trees, flowers, people, etc.
30. abnormal ele\_\_\_\_\_ram *n.* a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
31. implanted pa\_\_\_\_\_er *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
32. mic\_\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
33. re\_\_p briefly *v.* to repeat or summarize what has been said, decided, etc.
34. c\_\_x a smile *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
35. 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
36. va\_\_\_\_\_te against scarlet fever *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
37. arr\_\_\_\_\_ia treatment *n.* a medical condition in which the heartbeat is irregular, too slow, or too fast, which can cause the heart to pump blood less effectively and lead to a variety of symptoms such as palpitations, fatigue, shortness of breath, chest pain, or even fainting

ANSWERS: 29. clump, 30. electrocardiogram, 31. pacemaker, 32. microscopic, 33. recap, 34. coax, 35. heartbeat, 36. vaccinate, 37. arrhythmia

38. ruled by a ma\_\_\_\_\_ch *n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group
39. irrigation with sa\_\_\_\_e *adj.* containing salt; of or relating to chemical salts
40. follow the rules in lo\_\_\_\_\_ep *n.* a way of walking in which people's strides are perfectly synchronized; rigid conformity to a particular plan or set of actions
41. sh\_\_g off the importance *v.* to raise your shoulders and then drop them to say you do not know or are not interested
42. cl\_\_p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
43. ma\_\_\_\_\_ch figure *n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group
44. legal pa\_\_\_\_\_ce *n.* the way in which a particular group or community uses language; the specific terms, expressions, and jargon used by people in a particular field, profession, or social group
45. prima do\_\_a attitude *n.* (also used as "prima donna") a title of respect given in Italy to a woman of rank or nobility; a woman of distinction or importance
46. biological ro\_\_\_\_\_ck *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective

ANSWERS: 38. matriarch, 39. saline, 40. lockstep, 41. shrug, 42. clump, 43. matriarch, 44. parlance, 45. donna, 46. roadblock

47. nasal ca\_\_\_\_\_ge *n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose
48. ap\_\_\_\_\_d the orchestra *v.* to express approval of someone or something by clapping the hands
49. en\_\_\_\_\_on the project's success *v.* to imagine or expect what a situation will be like in the future
50. prima do\_\_a personality *n.* (also used as "prima donna") a title of respect given in Italy to a woman of rank or nobility; a woman of distinction or importance
51. re\_\_\_\_\_ed to their fate *adj.* having accepted something unpleasant or difficult, particularly a job or situation, without complaint or resistance; accepting one's fate or circumstances
52. ch\_\_k the ball across the yard *v.* to throw something carelessly or casually; to get rid of something or someone
53. reg\_\_\_\_\_ive therapy *adj.* tending to regrow or restore lost or injured tissue
54. main c\_\_x *n.* the most important or fundamental part of a matter or situation; the key point or central issue
55. emb\_\_\_\_\_gy research *n.* the branch of biology that studies the development of an embryo from the fertilization of the egg cell until birth or hatching
56. sh\_\_\_\_\_ss liar *adj.* without shame or embarrassment; showing no remorse or guilt for one's actions or behaviors

ANSWERS: 47. cartilage, 48. applaud, 49. envision, 50. donna, 51. resigned, 52. chuck, 53. regenerative, 54. crux, 55. embryology, 56. shameless

57. q\_o warranto *n.* the existing state or condition of something, especially in relation to a particular situation or issue
58. ga\_\_\_e of ducks *n.* a group or flock of wild geese; a gathering of people, particularly when noisy or in disarray
59. sh\_\_\_\_\_ss behavior *adj.* without shame or embarrassment; showing no remorse or guilt for one's actions or behaviors
60. em\_\_\_\_\_ic stem cells *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
61. status q\_o politician *n.* the existing state or condition of something, especially in relation to a particular situation or issue
62. cerebral inf\_\_\_\_\_on *n.* the obstruction or blockage of blood flow to a specific area or organ, leading to tissue damage or death, commonly used to describe a myocardial infarction (heart attack)
63. po\_\_\_\_\_te the countryside *v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
64. w\_\_e in popularity *v.* to decrease in size, strength, or intensity
65. left ve\_\_\_\_\_le *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

ANSWERS: 57. quo, 58. gaggle, 59. shameless, 60. embryonic, 61. quo, 62. infarction, 63. populate, 64. wane, 65. ventricle

66. pr\_\_\_\_e innocence *v.* to suppose or assume something to be true, often without sufficient evidence or proof; to take liberties, behave impolitely, or overstep one's bounds, often due to arrogance or ignorance
67. or\_\_\_\_id research *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
68. bio\_\_\_\_al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
69. ele\_\_\_\_\_ram technician *n.* a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
70. work in lo\_\_\_\_ep *n.* a way of walking in which people's strides are perfectly synchronized; rigid conformity to a particular plan or set of actions
71. or\_\_\_\_y and fair market *adj.* clean or organized in a neat, careful and logical way
72. common pa\_\_\_\_ce *n.* the way in which a particular group or community uses language; the specific terms, expressions, and jargon used by people in a particular field, profession, or social group
73. gu\_\_\_a pig *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

ANSWERS: 66. presume, 67. organoid, 68. biochemical, 69. electrocardiogram, 70. lockstep, 71. orderly, 72. parlance, 73. guinea

74. or\_\_\_\_y manner *adj.* clean or organized in a neat, careful and logical way
75. large in\_\_\_\_\_ne *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
76. a sa\_\_\_e lake *adj.* containing salt; of or relating to chemical salts
77. in\_\_\_\_\_ne wall *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
78. co\_\_\_a outbreak *n.* a crown-shaped structure, often referring to the outermost layer of the Sun's atmosphere; a family of viruses known as coronaviruses; a halo or aura around a celestial body; a circular pattern or shape
79. gu\_\_\_a coins *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
80. trade im\_\_\_\_\_ce *n.* a situation in which two or more things are not equal or equally treated
81. c\_\_t prevention *n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

ANSWERS: 74. orderly, 75. intestine, 76. saline, 77. intestine, 78. corona, 79. guinea, 80. imbalance, 81. clot

82. ab\_\_\_\_d with money      *v.* to leave hurriedly and secretly, especially to avoid getting into trouble or facing consequences
83. pr\_\_\_\_e on his tolerance      *v.* to suppose or assume something to be true, often without sufficient evidence or proof; to take liberties, behave impolitely, or overstep one's bounds, often due to arrogance or ignorance
84. tight r\_\_n      *n.* a long, narrow strap attached to a horse's bit, used to control the animal while riding; a means of controlling or limiting something or someone's actions and behavior; (verb) to control or restrain something, especially something that is becoming excessive or out of control
85. fe\_\_\_\_ze the female egg      *v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well
86. ap\_\_\_\_d his courage      *v.* to express approval of someone or something by clapping the hands
87. tw\_\_\_h of an eye      *v.* to make a sudden and quick movement with a part of the body; (noun) a sudden, small, jerky movement of a muscle or part of the body
88. heart arr\_\_\_\_ia      *n.* a medical condition in which the heartbeat is irregular, too slow, or too fast, which can cause the heart to pump blood less effectively and lead to a variety of symptoms such as palpitations, fatigue, shortness of breath, chest pain, or even fainting

ANSWERS: 82. abscond, 83. presume, 84. rein, 85. fertilize, 86. applaud, 87. twitch, 88. arrhythmia

89. bypass ro\_\_\_\_\_ck *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
90. syn\_\_\_\_\_us communication *adj.* occurring or operating at the same time or pace; happening simultaneously; coordinated or synchronized
91. ve\_\_\_\_\_le in the brain *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
92. plu\_\_\_\_\_nt gene expression *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
93. symptoms of hormonal im\_\_\_\_\_ce *n.* a situation in which two or more things are not equal or equally treated
94. fe\_\_\_\_\_ze the soil *v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well
95. ma\_\_\_\_\_e monkey *n.* any of the various short-tailed monkeys found in Asia and Africa, typically living in large groups and known for their intelligence and adaptability
96. en\_\_\_\_\_on the future *v.* to imagine or expect what a situation will be like in the future
97. myo\_\_\_\_\_al fibrosis *adj.* relating to the muscular tissue of the heart

ANSWERS: 89. roadblock, 90. synchronous, 91. ventricle, 92. pluripotent, 93. imbalance, 94. fertilize, 95. macaque, 96. envision, 97. myocardial



98. 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
99. po\_\_\_\_r life's meaning *v.* to think deeply or carefully about something
100. po\_\_\_\_r divine matters *v.* to think deeply or carefully about something
101. this shift occurs spo\_\_\_\_\_sly *adv.* in a way that is natural, not planned or forced, and often sudden
102. tw\_\_\_\_h at his sleeve *v.* to make a sudden and quick movement with a part of the body; (noun) a sudden, small, jerky movement of a muscle or part of the body
103. c\_\_x a confession *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
104. va\_\_\_\_\_te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
105. myo\_\_\_\_\_al infarction *adj.* relating to the muscular tissue of the heart
106. or\_\_\_\_\_id culture *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
107. po\_\_\_\_\_te the spreadsheet *v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information

ANSWERS: 98. heartbeat, 99. ponder, 100. ponder, 101. spontaneously, 102. twitch, 103. coax, 104. vaccinate, 105. myocardial, 106. organoid, 107. populate

108. je\_\_\_\_\_sh sting *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
109. spend the weekend with their gr\_\_\_\_\_ids *n.* the grandchildren of a particular person
110. ca\_\_\_\_\_ge damage *n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose
111. spineless je\_\_\_\_\_sh *n.* a marine creature with a soft, jelly-like body and tentacles for stinging
112. syn\_\_\_\_\_us learning *adj.* occurring or operating at the same time or pace; happening simultaneously; coordinated or synchronized
113. carry a s\_\_r *n.* a mark that remains on the skin after a wound has healed
114. ga\_\_\_e of tourists *n.* a group or flock of wild geese; a gathering of people, particularly when noisy or in disarray
115. with a re\_\_\_\_\_ed voice *adj.* having accepted something unpleasant or difficult, particularly a job or situation, without complaint or resistance; accepting one's fate or circumstances
116. w\_\_e over time *v.* to decrease in size, strength, or intensity
117. ej\_\_t huge amounts of pollutant *v.* to force someone to put out or leave a particular place or position
118. pe\_\_\_\_\_re in my goals *v.* to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement

ANSWERS: 108. jellyfish, 109. grandkid, 110. cartilage, 111. jellyfish, 112. synchronous, 113. scar, 114. gaggle, 115. resigned, 116. wane, 117. eject, 118. persevere

119. be\_\_e his expectations      *v.* to contradict or show to be false or untrue; to give a false impression or disguise the true nature of something
120. human emb\_\_\_\_\_gy      *n.* the branch of biology that studies the development of an embryo from the fertilization of the egg cell until birth or hatching
121. recover spo\_\_\_\_\_sly after five days      *adv.* in a way that is natural, not planned or forced, and often sudden
122. be\_\_es the impact of the speaker's words      *v.* to contradict or show to be false or untrue; to give a false impression or disguise the true nature of something
123. anti-gr\_\_t law      *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
124. gr\_\_t surgery      *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

ANSWERS: 119. belie, 120. embryology, 121. spontaneously, 122. belie, 123. graft, 124. graft

## Session 3: Fill in the Blanks

1. Even after the wound has healed, a \_\_\_\_\_ remains.  
*n.* a mark that remains on the skin after a wound has healed
2. The knee joint is supported by \_\_\_\_\_ which helps absorb shock and prevent bone damage.  
*n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose
3. The peaceful surroundings \_\_\_\_\_ the danger lurking just around the corner.  
*v.* to contradict or show to be false or untrue; to give a false impression or disguise the true nature of something
4. The small \_\_\_\_\_ is responsible for absorbing most of the nutrients from food.  
*n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
5. The rhesus \_\_\_\_\_ is one of the biomedical research's most widely used animal models.  
*n.* any of the various short-tailed monkeys found in Asia and Africa, typically living in large groups and known for their intelligence and adaptability
6. The development of \_\_\_\_\_ has opened up new avenues for research into the early stages of fetal development  
*n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

ANSWERS: 1. scar, 2. cartilage, 3. belied, 4. intestine, 5. macaque, 6. organoids

7. The cost of the antique vase is three \_\_\_\_\_.
- n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
8. She was so proud of her \_\_\_\_\_ who were all doing well in school and had great personalities.
- n.* the grandchildren of a particular person
9. I respect her ability to \_\_\_\_\_ off harsh criticism.
- v.* to raise your shoulders and then drop them to say you do not know or are not interested
10. The fragrance of this material \_\_\_\_\_ over weeks to months.
- v.* to decrease in size, strength, or intensity
11. Deer, squirrels, and birds primarily \_\_\_\_\_ the forest.
- v.* to inhabit or occupy a particular area, region, or environment with a certain number or type of people, animals, or plants; to fill out or complete a form, document, or database with relevant information
12. An \_\_\_\_\_ in certain substances causes problems with brain function.
- n.* a situation in which two or more things are not equal or equally treated
13. I will \_\_\_\_\_ these old shoes in the trash and buy a new pair.
- v.* to throw something carelessly or casually; to get rid of something or someone
14. We cannot \_\_\_\_\_ her as President.
- v.* to imagine or expect what a situation will be like in the future

ANSWERS: 7. guineas, 8. grandkids, 9. shrug, 10. wanes, 11. populate, 12. imbalance, 13. chuck, 14. envision

15. Her prima \_\_\_\_\_ behavior on the movie set was well known, making it difficult for directors to work with her.
- n.* (also used as "prima donna") a title of respect given in Italy to a woman of rank or nobility; a woman of distinction or importance
16. The fishing reel had a \_\_\_\_\_ that made it easy to reel in the catch.
- n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
17. She tried to \_\_\_\_\_ her cat out of the tree with a can of tuna.
- v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
18. Even when faced with challenges, it's important to \_\_\_\_\_ and never give up.
- v.* to persist in the course of action, despite opposition or difficulty; to continue with determination despite setbacks, obstacles, or discouragement
19. The company has been successful in maintaining the status \_\_\_\_\_.
- n.* the existing state or condition of something, especially in relation to a particular situation or issue
20. The \_\_\_\_\_ in the blood vessel required immediate medical attention.
- n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
21. The drug is dissolved in a \_\_\_\_\_ solution.
- adj.* containing salt; of or relating to chemical salts
22. Some people with \_\_\_\_\_ may need to avoid certain activities or sources of electromagnetic interference.
- n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

ANSWERS: 15. donna, 16. crank, 17. coax, 18. persevere, 19. quo, 20. clot, 21.

saline, 22. pacemakers

23. The patient was diagnosed with an \_\_\_\_\_ causing irregular heartbeats.
- n.* a medical condition in which the heartbeat is irregular, too slow, or too fast, which can cause the heart to pump blood less effectively and lead to a variety of symptoms such as palpitations, fatigue, shortness of breath, chest pain, or even fainting
24. He acted in a \_\_\_\_\_ way, not caring that his actions hurt others.
- adj.* without shame or embarrassment; showing no remorse or guilt for one's actions or behaviors
25. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.
- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
26. The nurse \_\_\_\_\_ the children in the school.
- v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
27. The heart's \_\_\_\_\_ are responsible for pumping blood out to the body.
- n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
28. She sat quietly, \_\_\_\_\_ the difficult decision.
- v.* to think deeply or carefully about something
29. I need to \_\_\_\_\_ these two wires together to complete the circuit.
- v.* to join or connect two or more pieces or lengths of something, especially by twisting or interweaving them; to get married
30. She had a \_\_\_\_\_ look on her face when she realized that she had lost the race.
- adj.* having accepted something unpleasant or difficult, particularly a job or situation, without complaint or resistance; accepting one's fate or circumstances

ANSWERS: 23. arrhythmia, 24. shameless, 25. microscopic, 26. vaccinated, 27. ventricles, 28. pondering, 29. splice, 30. resigned



31. The patient's skin \_\_\_\_\_ procedure was successful, and he was released from the hospital.
- n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
32. The group of performers perfectly executed the \_\_\_\_\_ dance routine.
- adj.* occurring or operating at the same time or pace; happening simultaneously; coordinated or synchronized
33. The accident caused a \_\_\_\_\_ on the highway, causing traffic to come to a standstill.
- n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
34. Let me quickly \_\_\_\_\_ these results.
- v.* to repeat or summarize what has been said, decided, etc.
35. I heard the \_\_\_\_\_ of his boots in the hallway.
- n.* a small group of bushes, trees, flowers, people, etc.
36. The new driver struggled to keep a firm grip on the \_\_\_\_\_ as the horse bolted.
- n.* a long, narrow strap attached to a horse's bit, used to control the animal while riding; a means of controlling or limiting something or someone's actions and behavior; (verb) to control or restrain something, especially something that is becoming excessive or out of control
37. The \_\_\_\_\_ of the matter was that the company was not financially stable.
- n.* the most important or fundamental part of a matter or situation; the key point or central issue

ANSWERS: 31. graft, 32. synchronous, 33. roadblock, 34. recap, 35. clump, 36. rein, 37. crux

38. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.  
*adj.* of or relating to the treatment or cure of disease
39. The hospital invested in state-of-the-art \_\_\_\_\_ machines to improve patient care.  
*n.* a test that uses electrodes placed on the chest, arms, and legs to record the electrical signals of the heart and create a graph that shows the heart's rhythm and activity
40. 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
41. \_\_\_\_\_ research is essential to understanding the complex chemical reactions in living organisms.  
*adj.* relating to the chemical processes and substances that occur within living organisms
42. In medical \_\_\_\_\_ a heart attack is a myocardial infarction.  
*n.* the way in which a particular group or community uses language; the specific terms, expressions, and jargon used by people in a particular field, profession, or social group
43. The physical examination revealed no abnormalities in the patient's \_\_\_\_\_ structure.  
*adj.* relating to the muscular tissue of the heart
44. The dancers moved in \_\_\_\_\_ perfectly synchronized with one another.  
*n.* a way of walking in which people's strides are perfectly synchronized; rigid conformity to a particular plan or set of actions

ANSWERS: 38. medicinal, 39. electrocardiogram, 40. heartbeat, 41. Biochemical, 42. parlance, 43. myocardial, 44. lockstep,

45. I \_\_\_\_\_ you've already made plans for the weekend since you didn't respond to my invitation.
- v.* to suppose or assume something to be true, often without sufficient evidence or proof; to take liberties, behave impolitely, or overstep one's bounds, often due to arrogance or ignorance
46. The grandparents take care of their \_\_\_\_\_ while the parents are at work.
- n.* a child of someone's son or daughter
47. The \_\_\_\_\_ of the family was known for her wisdom and guidance.
- n.* a woman who is the head of a family or social group; a woman who is the founder or dominant member of a group
48. I enthusiastically \_\_\_\_\_ my rival's achievement.
- v.* to express approval of someone or something by clapping the hands
49. Our immune system can \_\_\_\_\_ disease germs from the body.
- v.* to force someone to put out or leave a particular place or position
50. The electrical cord \_\_\_\_\_ combusted.
- adv.* in a way that is natural, not planned or forced, and often sudden
51. The project is still in its \_\_\_\_\_ stage.
- adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
52. \_\_\_\_\_ stem cells can differentiate into any cell in the body.
- adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

ANSWERS: 45. presume, 46. grandchild, 47. matriarch, 48. applaud, 49. eject, 50. spontaneously, 51. embryonic, 52. Pluripotent

53. The \_\_\_\_\_ properties of stem cells make them a promising area of research.

*adj.* tending to regrow or restore lost or injured tissue

54. A \_\_\_\_\_ of geese took off from the pond and flew overhead.

*n.* a group or flock of wild geese; a gathering of people, particularly when noisy or in disarray

55. She couldn't stop her leg from \_\_\_\_\_ nervously.

*v.* to make a sudden and quick movement with a part of the body; (noun) a sudden, small, jerky movement of a muscle or part of the body

56. The elections were handled in a timely and \_\_\_\_\_ manner.

*adj.* clean or organized in a neat, careful and logical way

57. The suspect \_\_\_\_\_ from the police station before they could be arrested.

*v.* to leave hurriedly and secretly, especially to avoid getting into trouble or facing consequences

58. The advancement of \_\_\_\_\_ provides us with a better understanding of genetics and human reproduction.

*n.* the branch of biology that studies the development of an embryo from the fertilization of the egg cell until birth or hatching

59. Time is critical when treating a myocardial \_\_\_\_\_.

*n.* the obstruction or blockage of blood flow to a specific area or organ, leading to tissue damage or death, commonly used to describe a myocardial infarction (heart attack)

60. The \_\_\_\_\_ virus has caused a global pandemic.

*n.* a crown-shaped structure, often referring to the outermost layer of the Sun's atmosphere; a family of viruses known as coronaviruses; a halo or aura around a celestial body; a circular pattern or shape

ANSWERS: 53. regenerative, 54. gaggle, 55. twitching, 56. orderly, 57. absconded, 58. embryology, 59. infarction, 60. corona

61. The beach was filled with hundreds of \_\_\_\_\_ so swimming was not recommended.

*n.* a marine creature with a soft, jelly-like body and tentacles for stinging

62. The couple decided to use the non-husband sperm to \_\_\_\_\_ a wife.

*v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

ANSWERS: 61. jellyfish, 62. fertilize