

# Englist.me



## Vocabulary Builder Reference from...

*Michael Levin: The electrical blueprints that orchestrate life | TED Talk*

[https://www.ted.com/talks/michael\\_levin\\_the\\_electrical\\_blueprints\\_that\\_orchestrate\\_life](https://www.ted.com/talks/michael_levin_the_electrical_blueprints_that_orchestrate_life)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### excite

v. to make someone feel suddenly enthusiastic or eager  
*synonym*: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

### tadpole

n. the aquatic larval stage of a frog or toad, characterized by a long tail and gills for breathing underwater

*synonym*: polliwog, froglet, girssle

(1) **tadpole** stage, (2) **tadpole** development

I saw a **tadpole** swimming in the pond during my morning walk.

### unroll

v. to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden

*synonym*: unwind, unfurl, wind off

(1) **unroll** the gift wrap, (2) **unroll** paper

I **unroll** the mat before starting my yoga practice.

### rearrange

v. to change the order or position of things already made; to change the time, date, or place of an event already planned

*synonym*: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule  
Please **rearrange** these files as we start a new project tomorrow.

## nostril

*n.* either of the two openings in the nose through which air is breathed

*synonym*: nose hole, nasal passage, naris

(1) bleeding **nostril**, (2) clogged **nostril**

She had a tissue ready to wipe her **nostril** after a sneeze.

## hardwired

*adj.* built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics

*synonym*: innate, ingrained, automatic

(1) **hardwired** behavior, (2) **hardwired** connection

The instinct to protect one's offspring is **hardwired** into many animal species.

## anatomical

*adj.* of or relating to the structure of the body and its parts

*synonym*: physical, bodily, structural

(1) **anatomical** structure, (2) **anatomical** elements

The **anatomical** model of the human body was used to teach medical students.

## 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.

## bioelectricity

*n.* the electrical phenomena occurring within living organisms, especially in cells and tissues, resulting from the movement of charged particles across cell membranes and the generation of electrical potentials

*synonym*: biological currents

(1) **bioelectricity** in cells, (2) **bioelectricity** experiments

Researchers are exploring ways to harness **bioelectricity** to develop innovative medical treatments and therapies.

## **lapse**

*n.* a temporary or brief failure in judgment, action, or behavior; a gradual or slow decline, often referring to a loss of performance, quality, or attention; a period of time that has passed; (verb) to fall or slip into a particular state, often one that is undesirable or unintended

*synonym* : break, failure, blunder

(1) **lapse** back into recession, (2) **lapse** in payment  
I missed the deadline due to a **lapse** in my memory.

## **eavesdrop**

*v.* to listen to someone else's conversation without their knowledge or permission

*synonym* : listen in, spy, overhear

(1) **eavesdrop** conversation, (2) **eavesdrop** on a secret plot  
I accidentally **eavesdropped** on a confidential meeting last week.

## **regenerate**

*v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

*synonym* : renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner  
The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

## **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.

## **rewire**

*v.* to replace or repair the wiring of something, especially an electrical system; to make significant changes in one's thoughts or behavior patterns

*synonym* : rewire, renovate, upgrade

(1) **rewire** a house, (2) **rewire** a program

I need to **rewire** the faulty electrical system in my house to prevent a fire.

## tweak

v. to pinch or squeeze something sharply; to adjust something finely

*synonym*: nip, pinch, fine-tune

(1) **tweak** his cheek, (2) **tweak** the economy

He didn't **tweak** the plan, even though he had time.

## reprogram

v. to modify or recreate a program

*synonym*: recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to remove the safeguard.

## 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.

## flatworm

*n.* a type of simple, soft-bodied invertebrate animal with a flat, ribbon-like shape, including tapeworms and planarians

*synonym*: tapeworm, planarian, platyhelminthe

(1) **flatworm** regeneration, (2) parasitic **flatworm**

Some **flatworm** species are capable of asexual reproduction, allowing them to colonize new environments rapidly.

## planarian

*n.* a small, flatworm with a simple nervous system found in freshwater environments that is used as a model organism in biological and medical research, especially for studying regeneration

*synonym*: flatworm, tapeworm

(1) **planarian** regeneration, (2) freshwater **planarian**

The nervous system of **planarians** is relatively simple and easy to study.

### 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.

### regeneration

*n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit

*synonym*: renewal, regrowth, restoration

(1) economic **regeneration**, (2) **regeneration** of forests

The **regeneration** of the damaged tissue in the body is a slow process.

### amputate

*v.* to cut off a part of the body, especially by surgery

*synonym*: cut off, cut away

(1) **amputate** both legs, (2) **amputate** below the knee

Finally, they had to **amputate** his foot to free him from the wrecked car.

### electrify

*v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

*synonym*: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

### transistor

*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

*synonym*: semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

## chop

*v.* to cut something into pieces with a sharp tool, such as a knife

*synonym*: cut, hack, slice

(1) **chop** wood, (2) **chop** a meet with a knife

The cook **chopped** the vegetables for the soup.

## ectopic

*adj.* (of medicine) describing a condition where a body part or structure is located in an abnormal position or location outside of its usual or proper place

*synonym*: misplaced, abnormal

(1) **ectopic** bowel obstruction, (2) **ectopic** heartbeat

An **ectopic** pregnancy is a medical emergency that requires immediate treatment.

## morphogenesis

*n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms

*synonym*: development, growth, formation

(1) **morphogenesis** process, (2) cellular **morphogenesis**

Defects in **morphogenesis** can lead to developmental abnormalities and congenital disabilities.

## trade-off

*n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

*synonym*: compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

## pharyngeal

*adj.* relating to the pharynx, the muscular tube that connects the mouth and nasal passages to the esophagus and

## larynx

*synonym* : throat, laryngeal, guttural

(1) **pharyngeal** cavity, (2) **pharyngeal** flap

The **pharyngeal** muscles are necessary for swallowing food and drink.

## excrete

*v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland

*synonym* : eliminate, expel, secrete

(1) **excrete** a sticky liquid, (2) **excrete** waste products

The body **excretes** excess salt through urine to maintain proper electrolyte balance.

## immortal

*adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance

*synonym* : eternal, everlasting, undying

(1) **immortal** soul, (2) **immortal** love

Legends often describe mythical creatures as **immortal** beings.

## exert

*v.* to put forth effort; to put into action; to bring into play

*synonym* : exert, apply, use

(1) **exert** control, (2) **exert** influence

He **exerted** himself to lift the heavyweight.

## retina

*n.* the innermost light-sensitive membrane covering the back wall of the eyeball

(1) **retinal** cells, (2) **retina** scanner

Damage to the **retina** may play a role in the development of glaucoma.

## 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.

## micromanagement

*n.* a style of management characterized by excessive attention to detail and control, often resulting in inefficient or demotivating work environments

*synonym*: control-freak management, nit-picking, excessive supervision

(1) **micromanagement** approach, (2) **micromanagement** techniques

His manager's **micromanagement** style drove him crazy, making him feel like he couldn't make any decisions on his own.

## xenobot

*n.* a type of robot made up of living cells, such as frog cells, that is capable of performing certain tasks

(1) **xenobot** technology, (2) **xenobot** experiment

Scientists are researching the possibility of using **xenobots** for medical applications.

## coalesce

*v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

*synonym*: merge, combine, unite

(1) **coalesce** ideas, (2) **coalesce** with the other

The various departments of the company will **coalesce** into one cohesive unit.

## 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.



## multicellular

*adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)

*synonym* : multicedled, many-celled, complex

(1) **multicellular** tissues, (2) **multicellular** life

**Multicellular** organisms are composed of many specialized cells working together.

## liberate

*v.* to set free; to release or rescue from captivity or oppression

*synonym* : emancipate, release, set free

(1) **liberate** people from oppression, (2) **liberate** potential

The prisoners were **liberated** after the war ended.

## maze

*n.* a complex network of winding passages or pathways designed as a puzzle or challenge for people to navigate through

*synonym* : labyrinth, puzzle, network

(1) puzzle **maze**, (2) labyrinth **maze**

We got lost in the **maze** of streets while exploring the city.

## cilium

*n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris

*synonym* : eyelash, flagellum

(1) **cilium** movement, (2) primary **cilium**

The microscopic analysis revealed a **cilium's** presence on the single-celled organism's surface.

## mucus

*n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

*synonym* : secretion, slime, saliva

(1) airway **mucus**, (2) nasal **mucus**

When the body temperature drops, **mucus** secretion fails.

## locomotion

*n.* the action or ability to move from one place to another

*synonym* : movement, travel, mobility

(1) **locomotion** system, (2) **locomotion** control

The **locomotion** of the robotic arm was smooth and precise.

## biosphere

*n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms

*synonym*: ecosphere, ecospace, ecosystem

(1) terrestrial **biosphere**, (2) artificial **biosphere**

The balance of the **biosphere** is crucial for the survival of species.

## toxin

*n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

*synonym*: poison, venom, contaminant

(1) **toxin** exposure, (2) **toxin** production

Mold exposure can release dangerous **toxins** into the air.

## reshape

*v.* to change the form or structure of something

*synonym*: alter, adjust, modify

(1) **reshape** education policy, (2) **reshape** my thoughts

The advent of the Internet completely **reshaped** the manufacturing industry.

## sandbox

*n.* an outdoor play area for children consisting of a box filled with sand; a virtual testing environment used for software development or security testing

*synonym*: playpen, sandpit, box

(1) **sandbox** approach, (2) virtual **sandbox**

The children played in the **sandbox** for hours, building sandcastles and digging tunnels.

## mind-boggling

*adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine

*synonym*: overwhelming, amazing, astonishing

(1) a **mind-boggling** puzzle, (2) a **mind-boggling** display

Educating hundreds of thousands of recruits is a

**mind-boggling** task.

**degenerate**

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

*synonym*: deteriorate, decline, decay

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

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

**morphology**

*n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another

*synonym*: structure, form, anatomy

(1) **morphology** of a language, (2) cellular **morphology**

The **morphology** of rocks can reveal clues about their geological history.

**mammalian**

*adj.* of or relating to mammals, a class of warm-blooded vertebrate animals that typically nurse their young and have hair or fur on their skin; characterized by mammalian qualities, such as nurturing and protective behavior

*synonym*: animal, mammal-like, warm-blooded

(1) **mammalian** embryo, (2) **mammalian** evolution

**Mammalian** milk is known to be rich in protein and essential vitamins.

**mimic**

*v.* to imitate someone's speech, movement, or behavior, especially to make others laugh

*synonym*: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

## Session 2: Spelling

1. el\_\_\_\_\_fy a manufacturing process      *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
2. la\_\_e in payment      *n.* a temporary or brief failure in judgment, action, or behavior; a gradual or slow decline, often referring to a loss of performance, quality, or attention; a period of time that has passed; (verb) to fall or slip into a particular state, often one that is undesirable or unintended
3. puzzle m\_\_e      *n.* a complex network of winding passages or pathways designed as a puzzle or challenge for people to navigate through
4. loc\_\_\_\_\_on system      *n.* the action or ability to move from one place to another
5. ma\_\_\_\_\_an evolution      *adj.* of or relating to mammals, a class of warm-blooded vertebrate animals that typically nurse their young and have hair or fur on their skin; characterized by mammalian qualities, such as nurturing and protective behavior
6. a min\_\_\_\_\_ing display      *adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine
7. labyrinth m\_\_e      *n.* a complex network of winding passages or pathways designed as a puzzle or challenge for people to navigate through

ANSWERS: 1. electrify, 2. lapse, 3. maze, 4. locomotion, 5. mammalian, 6. mind-boggling, 7. maze

8. bio\_\_\_\_\_al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
9. ec\_\_\_\_\_c heartbeat *adj.* (of medicine) describing a condition where a body part or structure is located in an abnormal position or location outside of its usual or proper place
10. c\_\_p a meet with a knife *v.* to cut something into pieces with a sharp tool, such as a knife
11. ex\_\_t influence *v.* to put forth effort; to put into action; to bring into play
12. loc\_\_\_\_\_on control *n.* the action or ability to move from one place to another
13. mul\_\_\_\_\_lar tissues *adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)
14. ana\_\_\_\_\_al structure *adj.* of or relating to the structure of the body and its parts
15. bio\_\_\_\_\_ity experiments *n.* the electrical phenomena occurring within living organisms, especially in cells and tissues, resulting from the movement of charged particles across cell membranes and the generation of electrical potentials
16. am\_\_\_\_\_te below the knee *v.* to cut off a part of the body, especially by surgery
17. reg\_\_\_\_\_te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

ANSWERS: 8. biochemical, 9. ectopic, 10. chop, 11. exert, 12. locomotion, 13. multicellular, 14. anatomical, 15. bioelectricity, 16. amputate, 17. regenerate

18. c\_\_p wood v. to cut something into pieces with a sharp tool, such as a knife
19. pha\_\_\_\_\_al flap *adj.* relating to the pharynx, the muscular tube that connects the mouth and nasal passages to the esophagus and larynx
20. am\_\_\_\_\_te both legs v. to cut off a part of the body, especially by surgery
21. mic\_\_\_\_\_ent approach *n.* a style of management characterized by excessive attention to detail and control, often resulting in inefficient or demotivating work environments
22. re\_\_\_\_\_e my thoughts v. to change the form or structure of something
23. a min\_\_\_\_\_ing puzzle *adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine
24. ci\_\_\_m movement *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
25. clogged no\_\_\_\_\_l *n.* either of the two openings in the nose through which air is breathed
26. pl\_\_\_\_\_an regeneration *n.* a small, flatworm with a simple nervous system found in freshwater environments that is used as a model organism in biological and medical research, especially for studying regeneration
27. mi\_\_c numerous instruments v. to imitate someone's speech, movement, or behavior, especially to make others laugh

ANSWERS: 18. chop, 19. pharyngeal, 20. amputate, 21. micromanagement, 22. reshape, 23. mind-boggling, 24. cilium, 25. nostril, 26. planarian, 27. mimic

28. ha\_\_\_\_\_ed behavior *adj.* built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics
29. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
30. cutting-edge bio\_\_\_\_\_al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
31. ana\_\_\_\_\_al elements *adj.* of or relating to the structure of the body and its parts
32. artificial bi\_\_\_\_\_re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
33. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
34. re\_\_\_\_\_ge his schedule *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
35. mi\_\_c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
36. ha\_\_\_\_\_ed connection *adj.* built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics

ANSWERS: 28. hardwired, 29. opportune, 30. biomedical, 31. anatomical, 32. biosphere, 33. medicinal, 34. rearrange, 35. mimic, 36. hardwired

37. cellular mor\_\_\_\_\_gy *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
38. environmental tr\_\_\_\_\_ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
39. re\_\_\_\_\_e education policy *v.* to change the form or structure of something
40. bio\_\_\_\_\_ity in cells *n.* the electrical phenomena occurring within living organisms, especially in cells and tissues, resulting from the movement of charged particles across cell membranes and the generation of electrical potentials
41. mor\_\_\_\_\_sis process *n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms
42. re\_\_\_\_\_am a database *v.* to modify or recreate a program
43. ta\_\_\_\_\_e stage *n.* the aquatic larval stage of a frog or toad, characterized by a long tail and gills for breathing underwater
44. mic\_\_\_\_\_ent techniques *n.* a style of management characterized by excessive attention to detail and control, often resulting in inefficient or demotivating work environments

ANSWERS: 37. morphology, 38. trade-off, 39. reshape, 40. bioelectricity, 41. morphogenesis, 42. reprogram, 43. tadpole, 44. micromanagement



45. mor\_\_\_\_\_gy of a language      *n.* the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
46. reg\_\_\_\_\_ion of forests      *n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit
47. re\_\_\_\_\_ge the furniture      *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
48. freshwater pl\_\_\_\_\_an      *n.* a small, flatworm with a simple nervous system found in freshwater environments that is used as a model organism in biological and medical research, especially for studying regeneration
49. en\_\_\_\_\_on the project's success      *v.* to imagine or expect what a situation will be like in the future
50. tr\_\_\_\_\_ff problem      *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
51. li\_\_\_\_\_te potential      *v.* to set free; to release or rescue from captivity or oppression
52. re\_\_\_\_\_e a house      *v.* to replace or repair the wiring of something, especially an electrical system; to make significant changes in one's thoughts or behavior patterns

ANSWERS: 45. morphology, 46. regeneration, 47. rearrange, 48. planarian, 49. envision, 50. trade-off, 51. liberate, 52. rewire



62. tra\_\_\_\_\_or circuit *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
63. reg\_\_\_\_\_ive medicine *adj.* tending to regrow or restore lost or injured tissue
64. tw\_\_k the economy *v.* to pinch or squeeze something sharply; to adjust something finely
65. ex\_\_\_e rebellion *v.* to make someone feel suddenly enthusiastic or eager
66. ex\_\_\_e the crowd *v.* to make someone feel suddenly enthusiastic or eager
67. li\_\_\_\_\_te people from oppression *v.* to set free; to release or rescue from captivity or oppression
68. reg\_\_\_\_\_ive therapy *adj.* tending to regrow or restore lost or injured tissue
69. ea\_\_\_\_\_op on a secret plot *v.* to listen to someone else's conversation without their knowledge or permission
70. re\_\_\_a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
71. to\_\_n production *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
72. traditional me\_\_\_\_\_al *adj.* of or relating to the treatment or cure of disease
73. im\_\_\_\_\_al love *adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance

ANSWERS: 62. transistor, 63. regenerative, 64. tweak, 65. excite, 66. excite, 67. liberate, 68. regenerative, 69. eavesdrop, 70. retina, 71. toxin, 72. medicinal, 73. immortal

74. mul\_\_\_\_\_lar life *adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)
75. fl\_\_\_\_\_rm regeneration *n.* a type of simple, soft-bodied invertebrate animal with a flat, ribbon-like shape, including tapeworms and planarians
76. un\_\_\_\_l the gift wrap *v.* to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
77. tw\_\_k his cheek *v.* to pinch or squeeze something sharply; to adjust something finely
78. nasal mu\_\_s *n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
79. terrestrial bi\_\_\_\_\_re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
80. bleeding no\_\_\_\_\_l *n.* either of the two openings in the nose through which air is breathed
81. to\_\_n exposure *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
82. tra\_\_\_\_\_or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

ANSWERS: 74. multicellular, 75. flatworm, 76. unroll, 77. tweak, 78. mucus, 79. biosphere, 80. nostril, 81. toxin, 82. transistor

83. el\_\_\_\_\_fy the audience      *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
84. ma\_\_\_\_\_an embryo      *adj.* of or relating to mammals, a class of warm-blooded vertebrate animals that typically nurse their young and have hair or fur on their skin; characterized by mammalian qualities, such as nurturing and protective behavior
85. complex bio\_\_\_\_\_al      *adj.* relating to the chemical processes and substances that occur within living organisms
86. deg\_\_\_\_\_te into a disagreement      *v.* (of a person, animal, or plant) to become worse in health or physical condition
87. im\_\_\_\_\_al soul      *adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance
88. ta\_\_\_\_\_e development      *n.* the aquatic larval stage of a frog or toad, characterized by a long tail and gills for breathing underwater
89. sa\_\_\_\_\_x approach      *n.* an outdoor play area for children consisting of a box filled with sand; a virtual testing environment used for software development or security testing
90. en\_\_\_\_\_on the future      *v.* to imagine or expect what a situation will be like in the future
91. co\_\_\_\_\_ce with the other      *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

ANSWERS: 83. electrify, 84. mammalian, 85. biochemical, 86. degenerate, 87. immortal, 88. tadpole, 89. sandbox, 90. envision, 91. coalesce

92. parasitic fl\_\_\_\_\_rm *n.* a type of simple, soft-bodied invertebrate animal with a flat, ribbon-like shape, including tapeworms and planarians
93. a reg\_\_\_\_\_te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
94. bio\_\_\_\_\_al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
95. co\_\_\_\_\_ce ideas *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
96. la\_\_e back into recession *n.* a temporary or brief failure in judgment, action, or behavior; a gradual or slow decline, often referring to a loss of performance, quality, or attention; a period of time that has passed; (verb) to fall or slip into a particular state, often one that is undesirable or unintended
97. primary ci\_\_\_m *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
98. ea\_\_\_\_\_op conversation *v.* to listen to someone else's conversation without their knowledge or permission
99. re\_\_\_\_\_am a device *v.* to modify or recreate a program

ANSWERS: 92. flatworm, 93. regenerate, 94. biomedical, 95. coalesce, 96. lapse, 97. cilium, 98. eavesdrop, 99. reprogram

100. economic reg\_\_\_\_\_ion      *n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit
101. an op\_\_\_\_\_ne remark      *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
102. re\_\_\_\_al cells      *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
103. ex\_\_\_\_\_e a sticky liquid      *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
104. cellular mor\_\_\_\_\_sis      *n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms
105. ex\_\_\_\_\_e waste products      *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
106. ec\_\_\_\_\_c bowel obstruction      *adj.* (of medicine) describing a condition where a body part or structure is located in an abnormal position or location outside of its usual or proper place

ANSWERS: 100. regeneration, 101. opportune, 102. retina, 103. excrete, 104. morphogenesis, 105. excrete, 106. ectopic

## Session 3: Fill in the Blanks

1. She had a tissue ready to wipe her \_\_\_\_\_ after a sneeze.  
*n.* either of the two openings in the nose through which air is breathed
2. We cannot \_\_\_\_\_ her as President.  
*v.* to imagine or expect what a situation will be like in the future
3. The various departments of the company will \_\_\_\_\_ into one cohesive unit.  
*v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
4. The body \_\_\_\_\_ excess salt through urine to maintain proper electrolyte balance.  
*v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
5. The cook \_\_\_\_\_ the vegetables for the soup.  
*v.* to cut something into pieces with a sharp tool, such as a knife
6. I need to \_\_\_\_\_ the faulty electrical system in my house to prevent a fire.  
*v.* to replace or repair the wiring of something, especially an electrical system; to make significant changes in one's thoughts or behavior patterns
7. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.  
*adj.* of or relating to the treatment or cure of disease
8. The \_\_\_\_\_ of the robotic arm was smooth and precise.  
*n.* the action or ability to move from one place to another

ANSWERS: 1. nostril, 2. envision, 3. coalesce, 4. excretes, 5. chopped, 6. rewire, 7. medicinal, 8. locomotion



9. The balance of the \_\_\_\_\_ is crucial for the survival of species.
- n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
10. Finally, they had to \_\_\_\_\_ his foot to free him from the wrecked car.
- v.* to cut off a part of the body, especially by surgery
11. He didn't \_\_\_\_\_ the plan, even though he had time.
- v.* to pinch or squeeze something sharply; to adjust something finely
12. Scientists are researching the possibility of using \_\_\_\_\_ for medical applications.
- n.* a type of robot made up of living cells, such as frog cells, that is capable of performing certain tasks
13. The nervous system of \_\_\_\_\_ is relatively simple and easy to study.
- n.* a small, flatworm with a simple nervous system found in freshwater environments that is used as a model organism in biological and medical research, especially for studying regeneration
14. The new CEO's primary mission is to \_\_\_\_\_ the company on the verge of bankruptcy.
- v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
15. The microscopic analysis revealed a \_\_\_\_\_ presence on the single-celled organism's surface.
- n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris

ANSWERS: 9. biosphere, 10. amputate, 11. tweak, 12. xenobots, 13. planarians, 14. regenerate, 15. cilium's

16. The \_\_\_\_\_ of the damaged tissue in the body is a slow process.
- n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit
17. Researchers are exploring ways to harness \_\_\_\_\_ to develop innovative medical treatments and therapies.
- n.* the electrical phenomena occurring within living organisms, especially in cells and tissues, resulting from the movement of charged particles across cell membranes and the generation of electrical potentials
18. \_\_\_\_\_ milk is known to be rich in protein and essential vitamins.
- adj.* of or relating to mammals, a class of warm-blooded vertebrate animals that typically nurse their young and have hair or fur on their skin; characterized by mammalian qualities, such as nurturing and protective behavior
19. Some \_\_\_\_\_ species are capable of asexual reproduction, allowing them to colonize new environments rapidly.
- n.* a type of simple, soft-bodied invertebrate animal with a flat, ribbon-like shape, including tapeworms and planarians
20. \_\_\_\_\_ 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
21. He is very popular at school because he can \_\_\_\_\_ all the teachers' accents.
- v.* to imitate someone's speech, movement, or behavior, especially to make others laugh

ANSWERS: 16. regeneration, 17. bioelectricity, 18. Mammalian, 19. flatworm, 20. Biomedical, 21. mimic

22. The product developed through years of research continues to \_\_\_\_\_ the market.
- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
23. \_\_\_\_\_ 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
24. He \_\_\_\_\_ the computer's operating system to remove the safeguard.
- v.* to modify or recreate a program
25. The \_\_\_\_\_ model of the human body was used to teach medical students.
- adj.* of or relating to the structure of the body and its parts
26. Mold exposure can release dangerous \_\_\_\_\_ into the air.
- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
27. The children played in the \_\_\_\_\_ for hours, building sandcastles and digging tunnels.
- n.* an outdoor play area for children consisting of a box filled with sand; a virtual testing environment used for software development or security testing
28. When the body temperature drops, \_\_\_\_\_ secretion fails.
- n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

ANSWERS: 22. electrify, 23. Biochemical, 24. reprogrammed, 25. anatomical, 26. toxins, 27. sandbox, 28. mucus

29. Please \_\_\_\_\_ these files as we start a new project tomorrow.
- v. to change the order or position of things already made; to change the time, date, or place of an event already planned
30. The once-thriving city has \_\_\_\_\_ into a crime-ridden slum.
- v. (of a person, animal, or plant) to become worse in health or physical condition
31. The \_\_\_\_\_ properties of stem cells make them a promising area of research.
- adj. tending to regrow or restore lost or injured tissue
32. I \_\_\_\_\_ the mat before starting my yoga practice.
- v. to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
33. I saw a \_\_\_\_\_ swimming in the pond during my morning walk.
- n. the aquatic larval stage of a frog or toad, characterized by a long tail and gills for breathing underwater
34. The \_\_\_\_\_ of rocks can reveal clues about their geological history.
- n. the study of the form and structure of plants, animals, and other organisms; the study of the alteration of word forms as they change from one part of speech to another
35. The \_\_\_\_\_ muscles are necessary for swallowing food and drink.
- adj. relating to the pharynx, the muscular tube that connects the mouth and nasal passages to the esophagus and larynx
36. An \_\_\_\_\_ pregnancy is a medical emergency that requires immediate treatment.
- adj. (of medicine) describing a condition where a body part or structure is located in an abnormal position or location outside of its usual or proper place

ANSWERS: 29. rearrange, 30. degenerated, 31. regenerative, 32. unroll, 33. tadpole, 34. morphology, 35. pharyngeal, 36. ectopic

37. \_\_\_\_\_ organisms are composed of many specialized cells working together.
- adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)
38. The news of her promotion \_\_\_\_\_ her.
- v.* to make someone feel suddenly enthusiastic or eager
39. Damage to the \_\_\_\_\_ may play a role in the development of glaucoma.
- n.* the innermost light-sensitive membrane covering the back wall of the eyeball
40. His manager's \_\_\_\_\_ style drove him crazy, making him feel like he couldn't make any decisions on his own.
- n.* a style of management characterized by excessive attention to detail and control, often resulting in inefficient or demotivating work environments
41. Educating hundreds of thousands of recruits is a \_\_\_\_\_ task.
- adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine
42. The instinct to protect one's offspring is \_\_\_\_\_ into many animal species.
- adj.* built-in or innate, often referring to behavior or traits that are instinctive or automatic, as if pre-programmed in the brain or genetics
43. Legends often describe mythical creatures as \_\_\_\_\_ beings.
- adj.* having eternal or never-ending life; living forever; incapable of dying; having enduring fame or lasting significance
44. Defects in \_\_\_\_\_ can lead to developmental abnormalities and congenital disabilities.
- n.* the biological process of growth, development, and differentiation of cells, tissues, and organs to give rise to the complex three-dimensional structures of living organisms

ANSWERS: 37. Multicellular, 38. excited, 39. retina, 40. micromanagement, 41. mind-boggling, 42. hardwired, 43. immortal, 44. morphogenesis

45. The prisoners were \_\_\_\_\_ after the war ended.  
*v.* to set free; to release or rescue from captivity or oppression
46. The advent of the Internet completely \_\_\_\_\_ the manufacturing industry.  
*v.* to change the form or structure of something
47. I missed the deadline due to a \_\_\_\_\_ in my memory.  
*n.* a temporary or brief failure in judgment, action, or behavior; a gradual or slow decline, often referring to a loss of performance, quality, or attention; a period of time that has passed; (verb) to fall or slip into a particular state, often one that is undesirable or unintended
48. The invention of the \_\_\_\_\_ revolutionized the field of electronics.  
*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
49. We got lost in the \_\_\_\_\_ of streets while exploring the city.  
*n.* a complex network of winding passages or pathways designed as a puzzle or challenge for people to navigate through
50. The phone rang at the most \_\_\_\_\_ time.  
*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
51. I accidentally \_\_\_\_\_ on a confidential meeting last week.  
*v.* to listen to someone else's conversation without their knowledge or permission
52. He \_\_\_\_\_ himself to lift the heavyweight.  
*v.* to put forth effort; to put into action; to bring into play

ANSWERS: 45. liberated, 46. reshaped, 47. lapse, 48. transistor, 49. maze, 50. opportune, 51. eavesdropped, 52. exerted

53. There was a \_\_\_\_\_ between speed and accuracy in the task.

- n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

ANSWERS: 53. trade-off