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Vocabulary Builder Reference from...

Seth Berkley: HIV and flu -- the vaccine strategy | TED Talk

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

Advanced Words Only

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Session 1: Word List

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym : probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

discontinue

v. to cease or stop doing something; to interrupt or terminate something that is already ongoing or in progress

synonym : halt, end, cease

(1) **discontinue** a service, (2) **discontinue** a project

The company has decided to **discontinue** the production of its unpopular product line.

eruption

n. an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

synonym : explosion, outburst, burst

(1) **eruption** alert level, (2) emotional **eruption**

The volcanic **eruption** caused widespread destruction and left the area covered in ash.

asteroid

n. (also "planetoid") a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

synonym: minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym: outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

sketchy

adj. lacking in detail or completeness; vague, uncertain, or unreliable; suspicious or questionable

synonym: suspicious, dubious, questionable

(1) **sketchy** sources, (2) **sketchy** behavior

The neighborhood had a **sketchy** reputation due to its high crime rate.

wildfire

n. a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope

synonym: blaze, bonfire, flame

(1) **wildfire** spread, (2) arson-caused **wildfire**

The **wildfire** destroyed hundreds of homes and forced thousands of people to evacuate.

reappear

v. to show up again or return after not being heard of or seen for a period of time

synonym: come again, repeat, re-emerge

(1) **reappear** on the surface, (2) **reappear** throughout this book

Cancer has **reappeared** at the same site.

converge

v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

synonym : congregate, assemble, concentrate

(1) **converge** of a series, (2) **converge** from different points
The two rivers **converge** into one near this area.

pneumonia

n. an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms

synonym : lung infection, bronchitis

(1) bacterial **pneumonia**, (2) viral **pneumonia**

She was hospitalized with a severe case of **pneumonia**.

whisper

v. to speak very quietly to somebody using the breath rather than the voice so that only those close to you can hear you

synonym : murmur, rumor, mutter

(1) answer in a **whisper**, (2) the **whisper** of the leaves

He took me aside and **whispered** in my ear.

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.

inoculate

v. to introduce a vaccine into the body to produce immunity to a specific disease

synonym : vaccinate, immunize, protect

(1) **inoculate** against disease, (2) **inoculate** with a virus

The doctor **inoculated** the child with a vaccine.

smallpox

n. a highly contagious viral disease characterized by fever, weakness, spots on the skin, and often death

synonym : variola

(1) **smallpox** epidemic, (2) **smallpox** vaccine

An outbreak of **smallpox** occurred in the 1920s.

polio

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading

to paralysis, muscle weakness, and potentially lifelong disability

synonym : poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym : germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

crafty

adj. skilled in deception or trickery; sly or cunning in the ways of achieving a goal

synonym : sly, cunning, wily

(1) **crafty** plan, (2) **crafty** manipulation

The **crafty** fox could outsmart the birds and catch them for his dinner.

humming

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

synonym : buzzing, droning, vibrating

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

The **humming** of the bees filled the air as she walked through the garden.

immunization

n. the process of making a person or animal immune to a specific disease by administering a vaccine or other preventative measure

synonym: vaccination, shot, inoculation

(1) **immunization** program, (2) childhood **immunization**

Due to the success of **immunization** programs, certain diseases, such as smallpox, have been eradicated.

foe

n. an enemy or opponent; someone or something that is opposed to or in conflict with another

synonym: enemy, adversary, opponent

(1) a political **foe**, (2) bitter **foe**

The superhero's arch- **foe** was an evil mastermind who always got away.

narrator

n. a person who tells a story, especially in a book or film

synonym: teller, storyteller

(1) first-person **narrator**, (2) the **narrator** of the TV program

The **narrator** makes use of the local dialect.

neutralize

v. to counteract or cancel the effects of something; to make something neutral or harmless

synonym: counteract, invalidate, cancel out

(1) **neutralize** a toxin, (2) **neutralize** an argument

We need to **neutralize** the acidity of this soil before we can grow any crops.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

aft

adj. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

(1) **aft** cabin, (2) **aft** view

The **aft** section of the ship suffered significant damage after the collision with the reef.

penetrate

v. to pass into or through something, often by overcoming resistance

synonym : pierce, stab, go through

(1) **penetrate** a cell, (2) **penetrate** quickly into the skin

Western ideology slowly **penetrates** through the eastern countries.

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.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym : pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

replicate

v. to make an exact copy of something; to repeat a process or experiment to confirm the results

synonym : duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

frontline

adj. in the most critical or dangerous position; in the military line or part of an army closest to the enemy

synonym : battlefield, cutting edge

(1) **frontline** health workers, (2) at the **frontline** of the war

Within days, the new aircraft was in **frontline** service.

troop

n. a group of soldiers, especially a large one; a group of people, animals, or things considered as a unit.

synonym : group, unit, band

(1) the members of a military **troop**, (2) a **troop** of deer
The **troop** of soldiers marched through the city in a parade.

dendrite

n. a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors

synonym : nerve cell, branch, projection

(1) **dendrite** growth, (2) basal **dendrite**

Damage to **dendrites** can result in communication problems between neurons and may contribute to certain neurological disorders.

macrophage

n. a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells

synonym : white blood cell, scavenger cell, phagocyte

(1) **macrophage** activity, (2) **macrophage** dysfunction

Cancer cells can evade the immune system's detection by avoiding interactions with **macrophages**.

latch

n. a device for holding a door or gate closed, typically a sliding bar or bolt

synonym : lock, catch, bolt

(1) set the **latch**, (2) **latch** mechanism

The **latch** on the gate was broken, so the cows got loose.

squadron

n. a military unit consisting of a headquarters and several units or subunits, typically composed of two or more flights of aircraft

synonym : flight, air wing, air group

(1) **squadron** leader, (2) bomber **squadron**

The combined **squadron** was responsible for protecting the airspace of the country.

recombine

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**

Some scientists argue that the genes in food should not be artificially **recombined**.

avian

adj. relating to or characteristic of birds

synonym: bird-like, feathered, winged

(1) **avian** influenza, (2) **avian** habitat

The expert on **avian** species studied the behavior of different types of birds.

swine

n. a domestic pig, especially one bred for its meat

synonym: pig, hog, porker

(1) **swine** flu, (2) **swine** industry

The farmer raises **swine** on his farm for the market.

furious

adj. extremely angry; full of rage

synonym: angry, rageful, livid

(1) **furious** anger, (2) a **furious** sea

The coach was **furious** with the players for their lack of effort during the game.

decoy

v. to lure or lead someone to follow a particular path or take a particular action, often with the intent of catching or trapping them; (noun) an object, person, or animal used to lure or lead someone or something into a trap or a dangerous situation

synonym: lure, bait, entice

(1) **decoy** ducks, (2) **decoy** cameras

The spy used a **decoy** bag to make it appear she was carrying sensitive information.

evade

v. to escape from or avoid meeting someone or something

synonym: dodge, avoid, bypass

(1) **evade** capture, (2) **evade** an issue

The jailbroken criminal is continuously attempting to **evade** the cops.

ambit

n. the range, extent, or scope of something; the boundaries or limits within which something operates or has influence

synonym: scope, range, extent

(1) **ambit** of jurisdiction, (2) within the **ambit**

The project's scope extends beyond the local **ambit** and includes national and international stakeholders.

protuberance

n. a noticeable or prominent projection, bump, or swelling on a surface or body; something that sticks out or protrudes

synonym: bump, gibbosity, prominence

(1) abdominal **protuberance**, (2) skin **protuberance**

The **protuberance** on the tree trunk served as a perch for birds.

cripple

v. to cause severe damage or injury that greatly impairs someone's ability to function or move; to weaken or undermine

synonym: disable, impair, paralyze

(1) **cripple** economy, (2) **cripple** opposition

The injury was severe enough to **cripple** the athlete's chances of playing again this season.

imaginable

adj. capable of being imagined

synonym: conceivable, plausible, possible

(1) easily **imaginable**, (2) worst **imaginable** case

This is the only **imaginable** strategy.

cumbersome

adj. difficult to handle or use, especially because of being large, heavy, or not effective; not elegant or graceful in expression

synonym: clumsy, awkward, bulky

(1) **cumbersome** process, (2) a **cumbersome** suitcase

His **cumbersome** writing style made the reader confused.

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.

alarming

adj. causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing

synonym : forbidding, concerning, disturbing

(1) **alarming** news, (2) **alarming** statistics

The sudden rise in crime rates in our neighborhood is quite **alarming**.

barber

n. a person who cuts men's hair and shaves beards as a profession; a shop or establishment where such services are offered

synonym : hairdresser, stylist, shaver

(1) favorite **barber**, (2) **barber** pole

The **barber** shop was closed on Monday, much to the disappointment of many customers.

pellet

n. a small, round piece of compressed material, such as wood or plastic

synonym : bead, ball, bullet

(1) the form of a small **pellet**, (2) **pellet** stove

The **pellet** gun was used to shoot small metal balls.

supple

adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

synonym : flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience

mesmerized.

- lop** v. to cut off or remove a part of something, usually a branch, in a rough or hasty manner
synonym: trim, prune, clip
(1) **lop** off the top of the hedge, (2) **lop** off the excess
I had to **lop** off the dead branches from the tree to promote healthy growth.
- coli** n. a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
(1) E. **coli** bacteria strain, (2) **coli** cells
The study of Escherichia **coli** has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.
- leapfrog** n. a children's game in which players take turns jumping over each other's stooped backs
synonym: hopping, jumpfrog
(1) **leapfrog** game, (2) **leapfrog** technology
During recess, the children played a game of **leapfrog** in the schoolyard.
- lifesaving** n. the act or process of rescuing someone else's life, especially from drowning
(1) **lifesaving** efforts, (2) **lifesaving** device
The patient needs a **lifesaving** transplant operation.
- 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.

foresight

n. the ability to anticipate or predict future events or outcomes; the act of planning for the future with wisdom and prudence; an intuitive sense of what is to come

synonym : prescience, prediction, clairvoyance

(1) strategic **foresight**, (2) **foresight** planning

With **foresight**, she made a plan to avoid any potential obstacles.

adjuvant

n. a substance that is added to a vaccine or medication to enhance its effects or increase its effectiveness

synonym : additive, enhancer, supplement

(1) **adjuvant** medication, (2) vaccine **adjuvant**

The doctor prescribed an **adjuvant** therapy to help enhance the effectiveness of the cancer treatment.

dilute

v. to make a substance less concentrated by adding a liquid or another substance to it

synonym : weaken, thin, reduce

(1) **dilute** acid with water, (2) **dilute** a great idea

She **diluted** the concentrated juice with water.

specter

n. a ghostly or haunting image or apparition; a threatening or ominous presence that causes fear or anxiety

synonym : ghost, phantom, apparition

(1) **specter** of death, (2) political **specter**

The **specter** of unemployment loomed over the young graduates as they exited the university.

gratification

n. the feeling of being pleased or satisfied as a result of achieving something or having something you want

synonym : satisfaction, pleasure, contentment

(1) instant **gratification**, (2) aesthetic **gratification**

The **gratification** of completing a difficult task is a great feeling.

salute

v. to show respect or recognition for someone or something, often by making a gesture or performing an

action; to greet or acknowledge someone in a formal or ceremonious way

synonym : greet, acknowledge, acclaim

(1) **salute** to the flag, (2) **salute** him in military fashion

The soldiers stood at attention to **salute** their commanding officer.

Session 2: Spelling

- | | | |
|-----------------------------------|------|---|
| 1. in___e other tissues | v. | to enter aggressively into another's territory by military force for conquest and occupation |
| 2. bomber sq____on | n. | a military unit consisting of a headquarters and several units or subunits, typically composed of two or more flights of aircraft |
| 3. de__y ducks | v. | to lure or lead someone to follow a particular path or take a particular action, often with the intent of catching or trapping them; (noun) an object, person, or animal used to lure or lead someone or something into a trap or a dangerous situation |
| 4. er____on alert level | n. | an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something |
| 5. av__n habitat | adj. | relating to or characteristic of birds |
| 6. po__o epidemic | n. | an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability |
| 7. fu____s anger | adj. | extremely angry; full of rage |
| 8. the na____or of the TV program | n. | a person who tells a story, especially in a book or film |

ANSWERS: 1. invade, 2. squadron, 3. decoy, 4. eruption, 5. avian, 6. polio, 7. furious, 8. narrator

9. sw__e flu *n.* a domestic pig, especially one bred for its meat
10. a_t view *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
11. re_____te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
12. in___t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
13. ev__e capture *v.* to escape from or avoid meeting someone or something
14. airway mu__s *n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
15. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation
16. sm_____ox epidemic *n.* a highly contagious viral disease characterized by fever, weakness, spots on the skin, and often death
17. ev__e an issue *v.* to escape from or avoid meeting someone or something
18. at the fr_____ne of the war *adj.* in the most critical or dangerous position; in the military line or part of an army closest to the enemy
19. re_____ar on the surface *v.* to show up again or return after not being heard of or seen for a period of time

ANSWERS: 9. swine, 10. aft, 11. replicate, 12. infect, 13. evade, 14. mucus, 15. invade, 16. smallpox, 17. evade, 18. frontline, 19. reappear

20. sq_____on leader *n.* a military unit consisting of a headquarters and several units or subunits, typically composed of two or more flights of aircraft
21. imm_____ion program *n.* the process of making a person or animal immune to a specific disease by administering a vaccine or other preventative measure
22. within the am__t *n.* the range, extent, or scope of something; the boundaries or limits within which something operates or has influence
23. l_p off the top of the hedge *v.* to cut off or remove a part of something, usually a branch, in a rough or hasty manner
24. ba___r pole *n.* a person who cuts men's hair and shaves beards as a profession; a shop or establishment where such services are offered
25. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
26. mac_____ge dysfunction *n.* a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
27. in___t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 20. squadron, 21. immunization, 22. ambit, 23. lop, 24. barber, 25. probabilistic, 26. macrophage, 27. inject

28. cr___y plan *adj.* skilled in deception or trickery; sly or cunning in the ways of achieving a goal
29. basal de_____te *n.* a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors
30. ad_____nt medication *n.* a substance that is added to a vaccine or medication to enhance its effects or increase its effectiveness
31. ability to re_____ne *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
32. first-person na_____or *n.* a person who tells a story, especially in a book or film
33. cum_____me process *adj.* difficult to handle or use, especially because of being large, heavy, or not effective; not elegant or graceful in expression
34. nasal mu__s *n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
35. sk_____y behavior *adj.* lacking in detail or completeness; vague, uncertain, or unreliable; suspicious or questionable
36. set the la__h *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
37. va_____te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease

ANSWERS: 28. crafty, 29. dendrite, 30. adjuvant, 31. recombine, 32. narrator, 33. cumbersome, 34. mucus, 35. sketchy, 36. latch, 37. vaccinate

38. neu_____ze an argument *v.* to counteract or cancel the effects of something; to make something neutral or harmless
39. strategic fo_____ht *n.* the ability to anticipate or predict future events or outcomes; the act of planning for the future with wisdom and prudence; an intuitive sense of what is to come
40. al_____ng statistics *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
41. in_____te against disease *v.* to introduce a vaccine into the body to produce immunity to a specific disease
42. sa____e to the flag *v.* to show respect or recognition for someone or something, often by making a gesture or performing an action; to greet or acknowledge someone in a formal or ceremonious way
43. skin pro_____nce *n.* a noticeable or prominent projection, bump, or swelling on a surface or body; something that sticks out or protrudes
44. a tr__p of deer *n.* a group of soldiers, especially a large one; a group of people, animals, or things considered as a unit.
45. a cum_____me suitcase *adj.* difficult to handle or use, especially because of being large, heavy, or not effective; not elegant or graceful in expression
46. co_____ge of a series *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

ANSWERS: 38. neutralize, 39. foresight, 40. alarming, 41. inoculate, 42. salute, 43. protuberance, 44. troop, 45. cumbersome, 46. converge

47. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
48. cr___y manipulation *adj.* skilled in deception or trickery; sly or cunning in the ways of achieving a goal
49. po__o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
50. dis_____ue a service *v.* to cease or stop doing something; to interrupt or terminate something that is already ongoing or in progress
51. emotional er_____on *n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something
52. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
53. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
54. a political f_e *n.* an enemy or opponent; someone or something that is opposed to or in conflict with another
55. su___e muscles *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
56. mac_____ge activity *n.* a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells

ANSWERS: 47. supple, 48. crafty, 49. polio, 50. discontinue, 51. eruption, 52. humming, 53. humming, 54. foe, 55. supple, 56. macrophage

57. di___e acid with water *v.* to make a substance less concentrated by adding a liquid or another substance to it
58. in___t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
59. answer in a wh____r *v.* to speak very quietly to somebody using the breath rather than the voice so that only those close to you can hear you
60. the form of a small pe___t *n.* a small, round piece of compressed material, such as wood or plastic
61. pe_____te quickly into the skin *v.* to pass into or through something, often by overcoming resistance
62. worst ima_____le case *adj.* capable of being imagined
63. co_____ge from different points *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
64. burn s__r *n.* a mark that remains on the skin after a wound has healed
65. de_____te growth *n.* a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors
66. la__h mechanism *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
67. plant pa_____en *n.* a bacterium, virus, or other microorganism that causes disease

ANSWERS: 57. dilute, 58. inject, 59. whisper, 60. pellet, 61. penetrate, 62. imaginable, 63. converge, 64. scar, 65. dendrite, 66. latch, 67. pathogen

68. abdominal pro_____nce *n.* a noticeable or prominent projection, bump, or swelling on a surface or body; something that sticks out or protrudes
69. vaccine ad_____nt *n.* a substance that is added to a vaccine or medication to enhance its effects or increase its effectiveness
70. re_____ne at the surface *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
71. pe____t stove *n.* a small, round piece of compressed material, such as wood or plastic
72. re_____te the cell *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
73. favorite ba____r *n.* a person who cuts men's hair and shaves beards as a profession; a shop or establishment where such services are offered
74. lif_____ng efforts *n.* the act or process of rescuing someone else's life, especially from drowning
75. fr_____ne health workers *adj.* in the most critical or dangerous position; in the military line or part of an army closest to the enemy
76. bacterial pn_____ia *n.* an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
77. as____id mining *n.* (also "planetoid") a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

ANSWERS: 68. protuberance, 69. adjuvant, 70. recombine, 71. pellet, 72. replicate, 73. barber, 74. lifesaving, 75. frontline, 76. pneumonia, 77. asteroid

78. fo_____ht planning *n.* the ability to anticipate or predict future events or outcomes; the act of planning for the future with wisdom and prudence; an intuitive sense of what is to come
79. the pa_____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
80. sa____e him in military fashion *v.* to show respect or recognition for someone or something, often by making a gesture or performing an action; to greet or acknowledge someone in a formal or ceremonious way
81. carry a s__r *n.* a mark that remains on the skin after a wound has healed
82. sk_____y sources *adj.* lacking in detail or completeness; vague, uncertain, or unreliable; suspicious or questionable
83. al_____ng news *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
84. bitter f_e *n.* an enemy or opponent; someone or something that is opposed to or in conflict with another
85. cr_____e opposition *v.* to cause severe damage or injury that greatly impairs someone's ability to function or move; to weaken or undermine
86. dis_____ue a project *v.* to cease or stop doing something; to interrupt or terminate something that is already ongoing or in progress

ANSWERS: 78. foresight, 79. pathogen, 80. salute, 81. scar, 82. sketchy, 83. alarming, 84. foe, 85. cripple, 86. discontinue

87. easily ima_____le *adj.* capable of being imagined
88. flu pa_____ic *n.* an outbreak of a disease that affects many people over a very wide area
89. va_____te against scarlet fever *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
90. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
91. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
92. sp_____r of death *n.* a ghostly or haunting image or apparition; a threatening or ominous presence that causes fear or anxiety
93. political sp_____r *n.* a ghostly or haunting image or apparition; a threatening or ominous presence that causes fear or anxiety
94. viral pn_____ia *n.* an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
95. di___e a great idea *v.* to make a substance less concentrated by adding a liquid or another substance to it
96. in_____te with a virus *v.* to introduce a vaccine into the body to produce immunity to a specific disease
97. c__i cells *n.* a bacterium of the genus *Escherichia* that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

ANSWERS: 87. imaginable, 88. pandemic, 89. vaccinate, 90. biomedical, 91. biomedical, 92. specter, 93. specter, 94. pneumonia, 95. dilute, 96. inoculate, 97. coli

98. E. c__i bacteria strain *n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
99. cr____e economy *v.* to cause severe damage or injury that greatly impairs someone's ability to function or move; to weaken or undermine
100. av__n influenza *adj.* relating to or characteristic of birds
101. instant gra_____ion *n.* the feeling of being pleased or satisfied as a result of achieving something or having something you want
102. the members of a military tr__p *n.* a group of soldiers, especially a large one; a group of people, animals, or things considered as a unit.
103. re____ar throughout this book *v.* to show up again or return after not being heard of or seen for a period of time
104. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
105. sm____ox vaccine *n.* a highly contagious viral disease characterized by fever, weakness, spots on the skin, and often death
106. global pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
107. arson-caused wi____re *n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope

ANSWERS: 98. coli, 99. cripple, 100. avian, 101. gratification, 102. troop, 103. reappear, 104. probabilistic, 105. smallpox, 106. pandemic, 107. wildfire

108. le____og game *n.* a children's game in which players take turns jumping over each other's stooped backs
109. le____og technology *n.* a children's game in which players take turns jumping over each other's stooped backs
110. in____t a computer with a virus *v.* to affect a person, an animal, or a plant with a disease-causing organism
111. childhood imm_____ion *n.* the process of making a person or animal immune to a specific disease by administering a vaccine or other preventative measure
112. a_t cabin *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
113. a fu____s sea *adj.* extremely angry; full of rage
114. sw__e industry *n.* a domestic pig, especially one bred for its meat
115. pe_____te a cell *v.* to pass into or through something, often by overcoming resistance
116. aesthetic gra_____ion *n.* the feeling of being pleased or satisfied as a result of achieving something or having something you want
117. lif_____ng device *n.* the act or process of rescuing someone else's life, especially from drowning
118. l_p off the excess *v.* to cut off or remove a part of something, usually a branch, in a rough or hasty manner

ANSWERS: 108. leapfrog, 109. leapfrog, 110. infect, 111. immunization, 112. aft, 113. furious, 114. swine, 115. penetrate, 116. gratification, 117. lifesaving, 118. lop

119. de__y cameras
v. to lure or lead someone to follow a particular path or take a particular action, often with the intent of catching or trapping them; (noun) an object, person, or animal used to lure or lead someone or something into a trap or a dangerous situation
120. neu_____ze a toxin
v. to counteract or cancel the effects of something; to make something neutral or harmless
121. wi_____re spread
n. a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope
122. am__t of jurisdiction
n. the range, extent, or scope of something; the boundaries or limits within which something operates or has influence
123. as_____id explorer
n. (also "planetoid") a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
124. the wh_____r of the leaves
v. to speak very quietly to somebody using the breath rather than the voice so that only those close to you can hear you

ANSWERS: 119. decoy, 120. neutralize, 121. wildfire, 122. ambit, 123. asteroid, 124. whisper

Session 3: Fill in the Blanks

1. Due to the success of _____ programs, certain diseases, such as smallpox, have been eradicated.
 - n.* the process of making a person or animal immune to a specific disease by administering a vaccine or other preventative measure

2. The experiment was _____ several times to ensure accuracy.
 - v.* to make an exact copy of something; to repeat a process or experiment to confirm the results

3. She _____ the concentrated juice with water.
 - v.* to make a substance less concentrated by adding a liquid or another substance to it

4. His _____ writing style made the reader confused.
 - adj.* difficult to handle or use, especially because of being large, heavy, or not effective; not elegant or graceful in expression

5. The two rivers _____ into one near this area.
 - v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

6. mRNA vaccines are approved faster because they do not contain inactivated _____.
 - n.* a bacterium, virus, or other microorganism that causes disease

7. With _____ she made a plan to avoid any potential obstacles.
 - n.* the ability to anticipate or predict future events or outcomes; the act of planning for the future with wisdom and prudence; an intuitive sense of what is to come

ANSWERS: 1. immunization, 2. replicated, 3. diluted, 4. cumbersome, 5. converge, 6. pathogens, 7. foresight,

8. Damage to _____ can result in communication problems between neurons and may contribute to certain neurological disorders.
- n.* a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors
9. Let's try to _____ a bit of enthusiasm into your performance.
- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
10. The injury was severe enough to _____ the athlete's chances of playing again this season.
- v.* to cause severe damage or injury that greatly impairs someone's ability to function or move; to weaken or undermine
11. The _____ of completing a difficult task is a great feeling.
- n.* the feeling of being pleased or satisfied as a result of achieving something or having something you want
12. The _____ of soldiers marched through the city in a parade.
- n.* a group of soldiers, especially a large one; a group of people, animals, or things considered as a unit.
13. We need to _____ the acidity of this soil before we can grow any crops.
- v.* to counteract or cancel the effects of something; to make something neutral or harmless
14. The _____ section of the ship suffered significant damage after the collision with the reef.
- adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

ANSWERS: 8. dendrites, 9. inject, 10. cripple, 11. gratification, 12. troop, 13. neutralize, 14. aft

15. The jailbroken criminal is continuously attempting to _____ the cops.
v. to escape from or avoid meeting someone or something
16. I had to ____ off the dead branches from the tree to promote healthy growth.
v. to cut off or remove a part of something, usually a branch, in a rough or hasty manner
17. She was hospitalized with a severe case of _____.
n. an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
18. The farmer raises _____ on his farm for the market.
n. a domestic pig, especially one bred for its meat
19. The study of Escherichia _____ has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.
n. a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
20. The _____ makes use of the local dialect.
n. a person who tells a story, especially in a book or film
21. Cancer has _____ at the same site.
v. to show up again or return after not being heard of or seen for a period of time
22. The doctor prescribed an _____ therapy to help enhance the effectiveness of the cancer treatment.
n. a substance that is added to a vaccine or medication to enhance its effects or increase its effectiveness

ANSWERS: 15. evade, 16. lop, 17. pneumonia, 18. swine, 19. coli, 20. narrator, 21. reappeared, 22. adjuvant

23. The _____ shop was closed on Monday, much to the disappointment of many customers.
- n.* a person who cuts men's hair and shaves beards as a profession; a shop or establishment where such services are offered
24. I have no intention to _____ your privacy.
- v.* to enter aggressively into another's territory by military force for conquest and occupation
25. The doctor _____ the child with a vaccine.
- v.* to introduce a vaccine into the body to produce immunity to a specific disease
26. They fear a _____ of a new type of virus.
- n.* an outbreak of a disease that affects many people over a very wide area
27. The expert on _____ species studied the behavior of different types of birds.
- adj.* relating to or characteristic of birds
28. Western ideology slowly _____ through the eastern countries.
- v.* to pass into or through something, often by overcoming resistance
29. The _____ fox could outsmart the birds and catch them for his dinner.
- adj.* skilled in deception or trickery; sly or cunning in the ways of achieving a goal
30. When the body temperature drops, _____ secretion fails.
- n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
31. The _____ destroyed hundreds of homes and forced thousands of people to evacuate.
- n.* a large, uncontrolled fire that spreads quickly through a natural area such as a forest, grassland, or mountain slope

ANSWERS: 23. barber, 24. invade, 25. inoculated, 26. pandemic, 27. avian, 28. penetrates, 29. crafty, 30. mucus, 31. wildfire

32. _____ 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
33. The neighborhood had a _____ reputation due to its high crime rate.
adj. lacking in detail or completeness; vague, uncertain, or unreliable; suspicious or questionable
34. The patient needs a _____ transplant operation.
n. the act or process of rescuing someone else's life, especially from drowning
35. The coach was _____ with the players for their lack of effort during the game.
adj. extremely angry; full of rage
36. Within days, the new aircraft was in _____ service.
adj. in the most critical or dangerous position; in the military line or part of an army closest to the enemy
37. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
n. (also "planetoid") a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
38. The _____ on the tree trunk served as a perch for birds.
n. a noticeable or prominent projection, bump, or swelling on a surface or body; something that sticks out or protrudes
39. The spy used a _____ bag to make it appear she was carrying sensitive information.
v. to lure or lead someone to follow a particular path or take a particular action, often with the intent of catching or trapping them; (noun) an object, person, or animal used to lure or lead someone or something into a trap or a dangerous situation

ANSWERS: 32. Biomedical, 33. sketchy, 34. lifesaving, 35. furious, 36. frontline, 37.

asteroid, 38. protuberance, 39. decoy

40. Even after the wound has healed, a _____ remains.

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

41. The sudden rise in crime rates in our neighborhood is quite _____.

adj. causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing

42. The _____ gun was used to shoot small metal balls.

n. a small, round piece of compressed material, such as wood or plastic

43. The ballerina's _____ movements left the audience mesmerized.

adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

44. The company has decided to _____ the production of its unpopular product line.

v. to cease or stop doing something; to interrupt or terminate something that is already ongoing or in progress

45. The _____ on the gate was broken, so the cows got loose.

n. a device for holding a door or gate closed, typically a sliding bar or bolt

46. During recess, the children played a game of _____ in the schoolyard.

n. a children's game in which players take turns jumping over each other's stooped backs

47. This is the only _____ strategy.

adj. capable of being imagined

ANSWERS: 40. scar, 41. alarming, 42. pellet, 43. supple, 44. discontinue, 45. latch, 46. leapfrog, 47. imaginable

48. The soldiers stood at attention to _____ their commanding officer.
- v.* to show respect or recognition for someone or something, often by making a gesture or performing an action; to greet or acknowledge someone in a formal or ceremonious way
49. The superhero's arch-____ was an evil mastermind who always got away.
- n.* an enemy or opponent; someone or something that is opposed to or in conflict with another
50. The volcanic _____ caused widespread destruction and left the area covered in ash.
- n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something
51. The combined _____ was responsible for protecting the airspace of the country.
- n.* a military unit consisting of a headquarters and several units or subunits, typically composed of two or more flights of aircraft
52. In a _____ system, the outcome is uncertain and can vary based on chance.
- adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
53. Cancer cells can evade the immune system's detection by avoiding interactions with _____.
- n.* a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
54. Children often _____ parents with this head cold.
- v.* to affect a person, an animal, or a plant with a disease-causing organism

ANSWERS: 48. salute, 49. foe, 50. eruption, 51. squadron, 52. probabilistic, 53. macrophages, 54. infect

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

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

56. An outbreak of _____ occurred in the 1920s.

n. a highly contagious viral disease characterized by fever, weakness, spots on the skin, and often death

57. Some scientists argue that the genes in food should not be artificially _____.

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

58. The _____ vaccine development is regarded as one of the greatest medical achievements of the 20th century.

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

59. The project's scope extends beyond the local _____ and includes national and international stakeholders.

n. the range, extent, or scope of something; the boundaries or limits within which something operates or has influence

60. The _____ of unemployment loomed over the young graduates as they exited the university.

n. a ghostly or haunting image or apparition; a threatening or ominous presence that causes fear or anxiety

61. He took me aside and _____ in my ear.

v. to speak very quietly to somebody using the breath rather than the voice so that only those close to you can hear you

ANSWERS: 55. humming, 56. smallpox, 57. recombined, 58. polio, 59. ambit, 60. specter, 61. whispered

62. The nurse _____ the children in the school.

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

ANSWERS: 62. vaccinated