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Vocabulary Builder Reference from...

Tal Danino: Programming bacteria to detect cancer (and maybe treat it) | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym : microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to antibiotics.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

synonym : star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of

matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

integral

adj. necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph

synonym : essential, fundamental, indispensable

(1) **integral** function, (2) **integral** component

Effective communication is an **integral** part of any successful team.

evolve

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

synonym : develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

blueprint

n. a photographic print of an early plan for a building or machine

synonym : draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint**

A business plan is a **blueprint** for your success.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add

detail to something that is in the process of being created

synonym : evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym : program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym : logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

fluorescent

adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light

synonym : luminescent, phosphorescent, radiant

(1) **fluorescent** bulb, (2) **fluorescent** material

The office installed new **fluorescent** lighting to save energy.

protein

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

rhythmic

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

synonym : measured, metrical, cadenced

(1) a **rhythmic** stroking, (2) in a **rhythmic** pace

The **rhythmic** sound of the drums was mesmerizing.

fashion

n. a style that is popular at a particular time or place; the state of being popular

synonym : style, manner, fad

(1) go out of **fashion**, (2) new **fashion** trends

That style is no longer in **fashion**.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym : convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

synchronize

v. to happen or cause to happen at the same time or rate

synonym : coordinate, accompany, harmonize

(1) **synchronize** movements, (2) **synchronize** our watches

The ball speed will increase when the lower body movements are perfectly **synchronized**.

colony

n. a country or an area that is governed by a more powerful country that is often far away

synonym : settlement, territory, plantation

(1) plant a **colony**, (2) a **colony** of bacteria

The **colony** declared its independence and became a republic.

genetic

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

synonym: hereditary, genetical, inborn

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

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

instruct

v. to teach someone practical skills or knowledge; to formally order or tell someone to do something

synonym: train, coach, guide

(1) **instruct** a student, (2) **instruct** a computer

The facility manager **instructed** the security guards to be on high alert.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym: marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

quorum

n. the minimum number of people required to be present at a meeting to conduct official business or make decisions; the number of individuals necessary for an organized group to function

synonym: minimum number, required number, majority

(1) small **quorum**, (2) required **quorum**

The board meeting can only proceed with a **quorum** of at least six members.

trigger

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

synonym: activate, spark, drive

(1) **trigger** a biochemical response, (2) **trigger** inflation

The incident **triggered** a political controversy.

coordinated

adj. effectively arranged or organized so that all the parts work smoothly or systematically together

synonym: collective, unified, cooperative

(1) in a **coordinated** manner, (2) **coordinated** robot system

For greater efficiency, our efforts must be better **coordinated**.

virulent

adj. extremely harmful or poisonous, especially in a physical or biological sense; highly infectious or contagious; intensely bitter or hostile

synonym: poisonous, venomous, toxic

(1) **virulent** disease, (2) **virulent** criticism

The **virulent** virus spread rapidly through the close-knit community.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym: pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

glow

v. to give out a steady, strong light

synonym: shine, radiate, beam

(1) **glow** a pale orange, (2) **glow** gold in the light

The sun was setting, and the sky **glowed** with beautiful colors.

outward

adj. relating to the external appearance or surface of something; visible

synonym: external, surface, exterior

(1) an **outward** journey, (2) **outward** cheerfulness

The **outward** appearance of the building was impressive, but the inside was in dire need of repairs.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

supernova

n. a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

synonym: explosion, detonation, blast

(1) extragalactic **supernova**, (2) **supernova** remnant

The **supernova** explosion created a bright new star in the night sky.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

disease

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

synonym: illness, ailment, affliction

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

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

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

naturally

adv. as might be expected; by natural manners

synonym: by nature, inherently, intrinsically

(1) **naturally** arising, (2) **naturally** regenerated forest

He was **naturally** gifted.

tumor

n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

synonym : neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym : characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

thrive

v. to grow vigorously; to make steady progress

synonym : bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure

Without investment, a business cannot **thrive**.

probiotic

n. a substance, typically a live bacterium, that is ingested to provide health benefits, particularly in aiding digestion or strengthening the immune system

synonym : probiotic bacteria, beneficial bacteria, microflora

(1) **probiotic** supplement, (2) **probiotic** yogurt

Probiotic-rich foods, such as kefir and sauerkraut, can improve digestive health.

liver

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

(1) **liver** disease, (2) fatty **liver**

The patient will undergo **liver** transplant surgery tomorrow.

convenient

adj. useful, helpful, or quick to do

synonym: timely, fortunate, suitable

(1) **convenient** way, (2) **convenient** location

The airport offers five **convenient** access routes.

highlight

v. to make something prominent, mainly so that people give it more attention

synonym: feature, emphasize, stress

(1) **highlight** a string in red, (2) **highlight** an important difference

The introduction **highlighted** the speaker's distinguished career as a consultant

presence

n. the fact or state that someone or something exists, occurs, or is present

synonym: existence, actuality, fact

(1) the evidence of the **presence**, (2) his majestic **presence**

The path to a solid online **presence** necessitates a high technical ability.

detectable

adj. capable of being discovered or identified

synonym: perceptible, noticeable, observable

(1) a barely **detectable** change, (2) **detectable** by the human ear

The object is **detectable** at ultraviolet wavelengths.

urine

n. a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate

synonym: excrement, dung, pee

(1) **urine** composition, (2) blood in the **urine**

They collected a **urine** specimen for urinalysis.

specifically

adv. only associated with or meant for one thing

synonym: especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically** American customers

This ad campaign is aimed **specifically** at young women.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym: hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym: exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

therapeutic

adj. relating to or involved in the treatment of illness or injury

synonym: healing, remedial, curative

(1) **therapeutic** massage, (2) **therapeutic** administration

Yoga is known to have **therapeutic** benefits for the mind and body.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

shrink

v. to become smaller, or to make something smaller in size or amount

synonym: decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

horizon

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

synonym: skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**

As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym: sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

symbol

n. something visible that is used to represent something else

synonym: mark, character, insignia

(1) **symbol** color, (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

entirely

adv. completely

synonym: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be **entirely** false.

ultimate

adj. furthest or highest in degree or order

synonym: highest, maximum, foremost

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

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

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.

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym: boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film producers.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym: imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

Session 2: Spelling

- | | | |
|------------------------------------|------|---|
| 1. sh___k the tumor | v. | to become smaller, or to make something smaller in size or amount |
| 2. r__y on convenience stores | v. | to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed. |
| 3. de___t smuggling across borders | v. | to find or recognize something, especially something difficult to see, hear, etc. |
| 4. su_____va remnant | n. | a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant |
| 5. pr_____ic yogurt | n. | a substance, typically a live bacterium, that is ingested to provide health benefits, particularly in aiding digestion or strengthening the immune system |
| 6. copyrighted so_____re | n. | a set of computer programs and associated documentation and data for doing particular computational jobs |
| 7. th___e on pressure | v. | to grow vigorously; to make steady progress |
| 8. mic_____ic analysis | adj. | tiny; exceedingly precise and detail-oriented; of or used in microscopy |
| 9. tu__r at remote sites | n. | a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way |

ANSWERS: 1. shrink, 2. rely, 3. detect, 4. supernova, 5. probiotic, 6. software, 7. thrive, 8. microscopic, 9. tumor

- | | |
|--|---|
| 10. a private ind_____al | <i>n.</i> a single person or thing, as distinct from a group |
| 11. in_____ct a computer | <i>v.</i> to teach someone practical skills or knowledge; to formally order or tell someone to do something |
| 12. g__w a pale orange | <i>v.</i> to give out a steady, strong light |
| 13. exp_____nt design | <i>n.</i> the scientific test conducted to observe what happens and gain new knowledge |
| 14. tu__r growth | <i>n.</i> a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way |
| 15. completely fas_____ng to me | <i>adj.</i> extremely interesting |
| 16. extragalactic su_____va | <i>n.</i> a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant |
| 17. baby with se_____ve skin | <i>adj.</i> able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do |
| 18. com_____te his anxieties to the psychiatrist | <i>v.</i> to share or exchange information with others by speaking, writing, moving your body, or using other signals |
| 19. tr_____r inflation | <i>v.</i> to make something happen suddenly; to cause something such as a device, machine, etc. to function |
| 20. the_____ic administration | <i>adj.</i> relating to or involved in the treatment of illness or injury |

ANSWERS: 10. individual, 11. instruct, 12. glow, 13. experiment, 14. tumor, 15. fascinating, 16. supernova, 17. sensitive, 18. communicate, 19. trigger, 20. therapeutic

21. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
22. population de_____y *n.* the quality of compactness of a substance
23. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
24. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
25. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
26. con_____nt location *adj.* useful, helpful, or quick to do
27. ind_____al freedom *n.* a single person or thing, as distinct from a group
28. fas_____ng story *adj.* extremely interesting
29. higher pixel de_____y *n.* the quality of compactness of a substance
30. coo_____ed robot system *adj.* effectively arranged or organized so that all the parts work smoothly or systematically together
31. ur__e composition *n.* a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate

ANSWERS: 21. galaxy, 22. density, 23. evolve, 24. genetic, 25. bacteria, 26. convenient, 27. individual, 28. fascinating, 29. density, 30. coordinated, 31. urine

32. a barely det_____le change *adj.* capable of being discovered or identified
33. an ou_____d journey *adj.* relating to the external appearance or surface of something; visible
34. in a rh_____ic pace *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
35. im_____e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
36. elliptic ga_____y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
37. his majestic pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
38. in_____al function *adj.* necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph
39. ex_____e in anger *v.* to burst or break open violently and noisily; to cause something to burst or break open
40. ex_____e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open
41. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 32. detectable, 33. outward, 34. rhythmic, 35. immune, 36. galaxy, 37. presence, 38. integral, 39. explode, 40. explode, 41. develop

42. li__r disease *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
43. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
44. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
45. na_____ly arising *adv.* as might be expected; by natural manners
46. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
47. hi_____ht an important difference *v.* to make something prominent, mainly so that people give it more attention
48. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
49. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
50. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 42. liver, 43. typical, 44. develop, 45. naturally, 46. indicate, 47. highlight, 48. algorithm, 49. observe, 50. software

61. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
62. new fa_____n trends *n.* a style that is popular at a particular time or place; the state of being popular
63. det_____le by the human ear *adj.* capable of being discovered or identified
64. the ul_____te luxury *adj.* furthest or highest in degree or order
65. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
66. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
67. sy____l color *n.* something visible that is used to represent something else
68. art cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
69. fatty li__r *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
70. flu_____nt material *adj.* emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
71. he was en_____ly to blame *adv.* completely

ANSWERS: 61. universe, 62. fashion, 63. detectable, 64. ultimate, 65. phenomenon, 66. disease, 67. symbol, 68. critic, 69. liver, 70. fluorescent, 71. entirely

72. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
73. the _____ic massage *adj.* relating to or involved in the treatment of illness or injury
74. bl_____nt for economic reform *n.* a photographic print of an early plan for a building or machine
75. syn_____ze movements *v.* to happen or cause to happen at the same time or rate
76. vi_____nt disease *adj.* extremely harmful or poisonous, especially in a physical or biological sense; highly infectious or contagious; intensely bitter or hostile
77. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
78. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
79. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
80. go out of fa_____n *n.* a style that is popular at a particular time or place; the state of being popular
81. in a coo_____ed manner *adj.* effectively arranged or organized so that all the parts work smoothly or systematically together

ANSWERS: 72. molecule, 73. therapeutic, 74. blueprint, 75. synchronize, 76. virulent, 77. cancer, 78. rely, 79. molecule, 80. fashion, 81. coordinated

82. business ho____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
83. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
84. theory of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
85. pathogenic ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
86. hi_____ht a string in red *v.* to make something prominent, mainly so that people give it more attention
87. a prodigious vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
88. a rh____ic stroking *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
89. required qu___m *n.* the minimum number of people required to be present at a meeting to conduct official business or make decisions; the number of individuals necessary for an organized group to function
90. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 82. horizon, 83. decide, 84. universe, 85. bacteria, 86. highlight, 87. vision, 88. rhythmic, 89. quorum, 90. communicate

91. sy___l for happiness *n.* something visible that is used to represent something else
92. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
93. the event ho_____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
94. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
95. tr_____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
96. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
97. in_____ct a student *v.* to teach someone practical skills or knowledge; to formally order or tell someone to do something
98. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
99. for spe_____lly American customers *adv.* only associated with or meant for one thing
100. plant a co___y *n.* a country or an area that is governed by a more powerful country that is often far away

ANSWERS: 91. symbol, 92. observe, 93. horizon, 94. diagram, 95. trigger, 96. sensitive, 97. instruct, 98. experiment, 99. specifically, 100. colony

101. g__w gold in the light *v.* to give out a steady, strong light
102. blood in the ur__e *n.* a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate
103. in____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
104. ty____l leader *adj.* having the usual characteristics or traits of a specific group of things
105. pr____ic supplement *n.* a substance, typically a live bacterium, that is ingested to provide health benefits, particularly in aiding digestion or strengthening the immune system
106. en____ly satisfied with the meal *adv.* completely
107. con____nt way *adj.* useful, helpful, or quick to do
108. small qu__m *n.* the minimum number of people required to be present at a meeting to conduct official business or make decisions; the number of individuals necessary for an organized group to function
109. pr____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
110. di____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 101. glow, 102. urine, 103. inspire, 104. typical, 105. probiotic, 106. entirely, 107. convenient, 108. quorum, 109. protein, 110. disease

111. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
112. vi_____nt criticism *adj.* extremely harmful or poisonous, especially in a physical or biological sense; highly infectious or contagious; intensely bitter or hostile
113. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
114. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
115. syn_____ze our watches *v.* to happen or cause to happen at the same time or rate
116. 3D di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
117. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
118. telescopic vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
119. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options

ANSWERS: 111. phenomenon, 112. virulent, 113. immune, 114. algorithm, 115. synchronize, 116. diagram, 117. protein, 118. vision, 119. decide

120. barren of cr____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
121. mic____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
122. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
123. env____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
124. a co____y of bacteria *n.* a country or an area that is governed by a more powerful country that is often far away
125. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
126. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
127. na____ly regenerated forest *adv.* as might be expected; by natural manners
128. flu____nt bulb *adj.* emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
129. the ul____te goal in life *adj.* furthest or highest in degree or order
130. ou____d cheerfulness *adj.* relating to the external appearance or surface of something; visible

ANSWERS: 120. creative, 121. microscopic, 122. cancer, 123. environment, 124. colony, 125. evolve, 126. critic, 127. naturally, 128. fluorescent, 129. ultimate, 130. outward

131. designed spe_____lly for men

adv. only associated with or meant for one thing

132. cr_____ve writing

adj. relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 131. specifically, 132. creative

Session 3: Fill in the Blanks

1. He is drawing a _____ illustrating how the equipment operates.
n. a simplified illustration of the appearance, structure, or workings of something
2. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
3. Babies heavily _____ on others for food.
v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
4. Driving is difficult for me because of my poor _____.
n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
5. Later, his claim was found to be _____ false.
adv. completely
6. The Milky Way _____ has numerous water-bearing planets.
n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
7. The _____ virus spread rapidly through the close-knit community.
adj. extremely harmful or poisonous, especially in a physical or biological sense; highly infectious or contagious; intensely bitter or hostile
8. The teacher is very _____ to children's feelings.
adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 1. diagram, 2. universe, 3. rely, 4. vision, 5. entirely, 6. galaxy, 7. virulent, 8. sensitive

9. He was _____ gifted.

adv. as might be expected; by natural manners

10. The incident _____ a political controversy.

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

11. The board meeting can only proceed with a _____ of at least six members.

n. the minimum number of people required to be present at a meeting to conduct official business or make decisions; the number of individuals necessary for an organized group to function

12. The data _____ that the company's profits have steadily increased over the past quarter.

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

13. The _____ sound of the drums was mesmerizing.

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

14. The sun was setting, and the sky _____ with beautiful colors.

v. to give out a steady, strong light

15. Do you know the _____ of the population in Hong Kong?

n. the quality of compactness of a substance

16. _____ prevalent in hospitals are often resistant to antibiotics.

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 9. naturally, 10. triggered, 11. quorum, 12. indicates, 13. rhythmic, 14. glowed, 15. density, 16. Bacteria

17. The old building _____ in a fiery inferno.
- v.* to burst or break open violently and noisily; to cause something to burst or break open
18. The doctor diagnosed him with a rare _____ that had no known cure.
- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
19. The introduction _____ the speaker's distinguished career as a consultant
- v.* to make something prominent, mainly so that people give it more attention
20. Effective communication is an _____ part of any successful team.
- adj.* necessary to make a whole complete; essential, or fundamental; combining with something else to form a whole; (noun, of mathematics) a fundamental concept in calculus that represents the area under a curve between two points on a graph
21. The ball speed will increase when the lower body movements are perfectly _____.
- v.* to happen or cause to happen at the same time or rate
22. A rainbow is a natural _____.
- n.* something that exists and can be perceptible, especially one that is not fully understood
23. Breast _____ is the most common type of cancer in women.
- n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

ANSWERS: 17. exploded, 18. disease, 19. highlighted, 20. integral, 21. synchronized, 22. phenomenon, 23. cancer

24. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
25. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
26. The body needs a certain amount of _____ to build and repair tissues.
- n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
27. All the supervisor has to do is assign tasks that make his subordinates more _____.
- adj.* relating to or involving the use of skill and original and unusual ideas to create something
28. The _____ declared its independence and became a republic.
- n.* a country or an area that is governed by a more powerful country that is often far away
29. The dragon is considered a _____ of bravery.
- n.* something visible that is used to represent something else
30. Without investment, a business cannot _____.
- v.* to grow vigorously; to make steady progress
31. It is important to _____ safety procedures in the workplace to prevent accidents.
- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 24. develop, 25. molecule, 26. protein, 27. creative, 28. colony, 29.

symbol, 30. thrive, 31. observe

32. The patient was diagnosed with a _____ in her lung.
n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
33. A business plan is a _____ for your success.
n. a photographic print of an early plan for a building or machine
34. The office installed new _____ lighting to save energy.
adj. emitting or reflecting vibrant and vivid light, especially under ultraviolet light; describing a type of lamp or bulb that produces such light
35. This shirt will _____ in the wash.
v. to become smaller, or to make something smaller in size or amount
36. The _____ appearance of the building was impressive, but the inside was in dire need of repairs.
adj. relating to the external appearance or surface of something; visible
37. Advocates for legal reform hear less harsh words from their _____.
n. someone who expresses opinions about the quality of books, music, etc.
38. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live
39. The path to a solid online _____ necessitates a high technical ability.
n. the fact or state that someone or something exists, occurs, or is present
40. We can evaluate the performance of an _____ in terms of computation time.
n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 32. tumor, 33. blueprint, 34. fluorescent, 35. shrink, 36. outward, 37. critics, 38. environment, 39. presence, 40. algorithm

41. They collected a _____ specimen for urinalysis.
n. a liquid by-product of metabolism in humans and in many other animals that are released from the body when you urinate
42. Dolphins use sound to _____ with each other.
v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
43. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order
44. Understanding protein folding is a vital step in deciphering the _____ code.
adj. of or relating to genes (= parts of the DNA in cells) or the science of genes
45. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
46. _____ foods, such as kefir and sauerkraut, can improve digestive health.
n. a substance, typically a live bacterium, that is ingested to provide health benefits, particularly in aiding digestion or strengthening the immune system
47. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group
48. The unique style of this martial arts _____ many action film producers.
v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

ANSWERS: 41. urine, 42. communicate, 43. ultimate, 44. genetic, 45. experiments, 46. Probiotic-rich, 47. individual, 48. inspired

49. For greater efficiency, our efforts must be better _____.

adj. effectively arranged or organized so that all the parts work smoothly or systematically together

50. Eyeless fish _____ in dark caves.

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

51. The security camera has _____ four intruders.

v. to find or recognize something, especially something difficult to see, hear, etc.

52. The museum houses a _____ collection of Celtic artifacts.

adj. extremely interesting

53. That style is no longer in _____.

n. a style that is popular at a particular time or place; the state of being popular

54. She couldn't _____ whether to order the pizza or the pasta for dinner.

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

55. The patient will undergo _____ transplant surgery tomorrow.

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

56. This artwork is _____ of her work.

adj. having the usual characteristics or traits of a specific group of things

57. The company specializes in both hardware and _____.

n. a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 49. coordinated, 50. evolved, 51. detected, 52. fascinating, 53. fashion, 54. decide, 55. liver, 56. typical, 57. software

58. This ad campaign is aimed _____ at young women.

adv. only associated with or meant for one thing

59. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

60. The object is _____ at ultraviolet wavelengths.

adj. capable of being discovered or identified

61. The airport offers five _____ access routes.

adj. useful, helpful, or quick to do

62. The _____ explosion created a bright new star in the night sky.

n. a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

63. Inspectors noticed _____ cracks in the submarine's hull.

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

64. The facility manager _____ the security guards to be on high alert.

v. to teach someone practical skills or knowledge; to formally order or tell someone to do something

65. The vaccination does not necessarily make you completely _____.

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

ANSWERS: 58. specifically, 59. horizon, 60. detectable, 61. convenient, 62. supernova, 63. microscopic, 64. instructed, 65. immune

66. Yoga is known to have _____ benefits for the mind and body.

adj. relating to or involved in the treatment of illness or injury

ANSWERS: 66. therapeutic