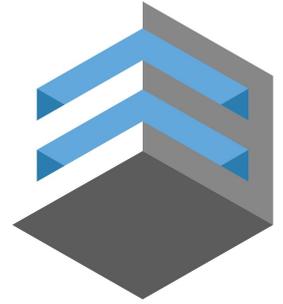


Englist.me



Vocabulary Builder Reference from...

Gil Weinberg: Can robots be creative? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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**.

compose

v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

synonym : compile, constitute, build

(1) **compose** an essay, (2) **compose** my thoughts

The structure is **composed** of three main components.

grapple

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

synonym : brawl, scuffle, wrestle

(1) **grapple** with problem, (2) **grapple** with each other

He needed to **grapple** with structural reforms to improve the company's revenue.

artificial

adj. not natural and made by human beings; not real but produced to resemble something

synonym : synthetic, man-made, manufactured

(1) **artificial** flowers, (2) **artificial** environment

The **artificial** intelligence system has revolutionized the way we live and work.

intelligence

n. the ability to learn, comprehend, or make judgments or conclusions based on reasons

synonym: brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

intentionally

adv. in a planned or intended way

synonym: knowingly, calculatedly, deliberately

(1) she hit him **intentionally**, (2) She **intentionally** spread misleading information.

She would never **intentionally** hurt anyone.

accord

n. an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have

synonym: alliance, pact, agreement

(1) **accord** with public opinion, (2) binational **accord**

The organization finally signed a peace **accord**.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

propose

v. to make a proposal, declare a plan for something
synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes
I want to **propose** a toast in honor of our longstanding relationship.

scrutinize

v. to examine carefully and critically; to inspect closely
synonym: examine, inspect, audit

(1) **scrutinize** her belongings, (2) **scrutinize** a suspect
The detective **scrutinized** the evidence for any clues.

outcome

n. the result or effect of an action, event, etc.
synonym: result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**
They awaited news of the **outcome** of the election.

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.

glance

v. to give a quick or brief look; to hit something at an angle
synonym: glimpse, peek, flash

(1) **glance** around nervously, (2) **glance** at him miserably
I casually **glanced** into the small hut.

complexity

n. the state or quality of being complicated or intricate and difficult to understand
synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory
The project's **complexity** made it difficult for the team to complete it on time.

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.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**
To find drunk drivers, police conduct **random** tests.

chaotic

adj. without any order or organization; extremely disorganized, unpredictable, and confusing

synonym: disorderly, cluttered, topsy-turvy

(1) the **chaotic** economic situation, (2) **chaotic** theory
Change is also occurring in Turkey as a result of **chaotic** reform.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym: purpose, mapping, job

(1) **function** properly, (2) immune **function**
The brain is an incredibly complex organ that controls the body's **function**.

fuzzy

adj. having a soft and indistinct outline or covered with fine, soft, and hairlike fibers

synonym: hazy, blurry, indistinct

(1) **fuzzy** logic, (2) **fuzzy** memory
The picture was **fuzzy** because it was taken with an old camera.

logic

n. a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

synonym : reasoning, reason, ratiocination

(1) an indisputable **logic**, (2) a demonstration in **logic**

There's no **logic** in his description.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym : arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

yield

n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

countless

adj. too numerous to be counted or very many

synonym : innumerable, myriad, numerous

(1) **countless** hours, (2) answer **countless** questions

There are **countless** methods for dealing with stress.

melody

n. a succession of musical tones forming part of a larger piece of music

synonym : tune, song, piece

(1) a simple **melody**, (2) the **melody** of a tune

This harmonious **melody** immortalized its composer.

fraction

n. a small part or item forming a piece of a whole; the quotient of two rational numbers

synonym : piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a **fraction**

He spent only a **fraction** of his earnings.

distinguish

v. to notice or understand the difference between two people or things

synonym: determine, differentiate, characterize

(1) **distinguish** these two things, (2) **distinguish** man from the other animals

This study **distinguished** four different ways to run a business.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

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.

mimic

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

synonym: mirror, imitate, ape

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

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

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

artistic

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

synonym: beautiful, aesthetic, creative

(1) an **artistic** photograph, (2) cultural and **artistic** activity

Promising entrepreneurs often have a high **artistic** sensibility.

initial

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

synonym: basic, primary, beginning

(1) **initial** velocity, (2) an **initial** letter

They took the **initial** step toward reconciliation.

phrase

n. a group of words that mean something specific when used together

synonym: expression, idiom, term

(1) ready-made **phrases**, (2) noun **phrase**

We bought a Spanish **phrase** book.

reproduction

n. the process by which organisms create offspring; the production of something similar to an original work

synonym : procreation, replication, duplication

(1) **reproduction** rate, (2) **reproduction** system

The **reproduction** of the plant depends on the pollinators.

mutation

n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym : metamorphosis, transformation, alteration

(1) **mutation** of DNA, (2) hereditary **mutation**

Radiation often promotes genetic **mutations** in plants and animals.

combine

v. to join or merge to form a single thing or group

synonym : coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

external

adj. belonging to or situated outside of someone or something

synonym : outside, exterior, foreign

(1) **external** factors, (2) **external** commerce

When a company discloses information to the market, an **external** auditor verifies them.

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**.

fan

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

synonym: lover, devotee, blade

(1) a film **fan**, (2) engine cooling **fan**

I'm a big **fan** of French food.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

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.

weed

n. a wild plant growing where it is not wanted and in competition with cultivated plants

synonym: plant, grass, shrub

(1) pull up a **weed**, (2) **weed** management

The garden was full of **weeds** that needed to be pulled.

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**.

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.

aesthetic

adj. connected with the enjoyment or study of beauty

synonym: beautiful, artistic, esthetic

(1) **aesthetic** value, (2) **aesthetic** feeling

My **aesthetic** standards are quite different from hers.

theoretical

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

synonym: conceptual, conjectural, ideal

(1) **theoretical** models, (2) **theoretical** physicist

Absolute zero is the lowest **theoretical** temperature.

satisfy

v. to make somebody pleased by giving them what they want or need

synonym: please, amuse, meet

(1) **satisfy** a desire, (2) **satisfy** a user's needs

Did this response **satisfy** your request?

intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

synonym: instinct, gut feeling, sixth sense

(1) creative **intuition**, (2) **intuition** research

Some studies suggest that people's **intuitions** can be influenced by their experiences and biases.

intention

n. something you want to do and are going to do

synonym: purpose, connotation, will

(1) **intention** behind his decision, (2) clear **intention**

Our CEO's **intentions** are always transparent and straightforward.

interconnect

v. to connect similar things

synonym: interlink, connect, annex

(1) directly **interconnect** with those systems, (2) human activities **interconnect** with the environment

Our system can now **interconnect** with other databases.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

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.

chaos

n. a state of complete confusion or disorder, often characterized by a lack of predictability or control

synonym: disorder, turmoil, confusion

(1) **chaos** theory, (2) midst of **chaos**

The conference room was in **chaos** as everyone tried to speak at once.

dynamo

n. a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field

synonym: generator, powerhouse

(1) a **dynamo** of productivity, (2) marketing **dynamo**

The electrical **dynamo** produced enough power to light up the entire city.

sculpture

n. the art of creating three-dimensional objects or forms, typically by carving, modeling, or casting in a variety of materials such as stone, wood, metal, or clay

synonym: statuary, carving, modeling

(1) create **sculpture**, (2) abstract **sculpture**

The ancient Greek **sculptures** are known for their realism and attention to detail.

poetry

n. poems in general as a genre of literature

synonym: ode, poesy, verse

(1) modern **poetry**, (2) book of **poetry**

Different cultures have different comfortable word rhythms, so the composition of **poetry** varies greatly.

jury

n. a group of people called upon to render a verdict or judgment in a legal trial; a group of people chosen for a special purpose or task

synonym: panel, tribunal, adjudicators

(1) **jury** verdict, (2) **jury** duty

The judge instructed the **jury** on the law and the evidence presented in the trial.

weep

v. to cry tears because of sadness, rage, or pain

synonym: cry, sob, mourn

(1) **weep** bitter tears, (2) **weep** for joy

I'm easily moved to tears, so I would **weep** in sympathy if I saw that movie.

shiver

v. to shake or quiver with cold, fear, or excitement; to tremble or vibrate rapidly

synonym: quiver, tremble, shake

(1) **shiver** with delight, (2) **shiver** in fear

I **shiver** in the cold winter air as I wait for the train.

spine

n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column

synonym: backbone, vertebra, column

(1) the **spine** of a book, (2) a cervical **spine** injury

She has a minor curved **spine** due to desk work for many years.

Session 2: Spelling

- | | |
|------------------------------------|--|
| 1. exp_____nt design | <i>n.</i> the scientific test conducted to observe what happens and gain new knowledge |
| 2. a numerator in a fr_____on | <i>n.</i> a small part or item forming a piece of a whole; the quotient of two rational numbers |
| 3. gr_____e with each other | <i>v.</i> to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons |
| 4. pull up a w__d | <i>n.</i> a wild plant growing where it is not wanted and in competition with cultivated plants |
| 5. the ch_____c economic situation | <i>adj.</i> without any order or organization; extremely disorganized, unpredictable, and confusing |
| 6. engine cooling f_n | <i>n.</i> a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces |
| 7. j__y duty | <i>n.</i> a group of people called upon to render a verdict or judgment in a legal trial; a group of people chosen for a special purpose or task |
| 8. j__y verdict | <i>n.</i> a group of people called upon to render a verdict or judgment in a legal trial; a group of people chosen for a special purpose or task |
| 9. env_____nt affairs | <i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live |

ANSWERS: 1. experiment, 2. fraction, 3. grapple, 4. weed, 5. chaotic, 6. fan, 7. jury, 8. jury, 9. environment

10. mu_____on of DNA *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
11. ch__s theory *n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control
12. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
13. fu__y memory *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
14. in_____on behind his decision *n.* something you want to do and are going to do
15. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
16. sa_____y a user's needs *v.* to make somebody pleased by giving them what they want or need
17. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
18. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 10. mutation, 11. chaos, 12. genetic, 13. fuzzy, 14. intention, 15. creative, 16. satisfy, 17. represent, 18. function

19. marketing dy___o *n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field
20. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
21. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
22. She int_____lly spread misleading information. *adv.* in a planned or intended way
23. binational ac___d *n.* an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have
24. ae_____ic feeling *adj.* connected with the enjoyment or study of beauty
25. a film f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
26. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
27. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
28. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 19. dynamo, 20. complexity, 21. complexity, 22. intentionally, 23. accord, 24. aesthetic, 25. fan, 26. determinant, 27. artificial, 28. creative

29. pr____e changes *v.* to make a proposal, declare a plan for something
30. fu__y logic *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
31. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
32. answer co_____ss questions *adj.* too numerous to be counted or very many
33. ev_____on theory *n.* a gradual process of transformation of living things
34. noun ph____e *n.* a group of words that mean something specific when used together
35. directly int_____ect with those systems *v.* to connect similar things
36. co____e my thoughts *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
37. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
38. the_____al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
39. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms

ANSWERS: 29. propose, 30. fuzzy, 31. yield, 32. countless, 33. evolution, 34. phrase, 35. interconnect, 36. compose, 37. genetic, 38. theoretical, 39. evolutionary

40. a dy___o of productivity *n.* a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field
41. an ar____ic photograph *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
42. sa____y a desire *v.* to make somebody pleased by giving them what they want or need
43. co_____ss hours *adj.* too numerous to be counted or very many
44. a cervical sp__e injury *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
45. human activities int_____ect with the environment *v.* to connect similar things
46. 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
47. w__d management *n.* a wild plant growing where it is not wanted and in competition with cultivated plants
48. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
49. sh___r in fear *v.* to shake or quiver with cold, fear, or excitement; to tremble or vibrate rapidly

ANSWERS: 40. dynamo, 41. artistic, 42. satisfy, 43. countless, 44. spine, 45. interconnect, 46. develop, 47. weed, 48. mimic, 49. shiver

50. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
51. book of po____y *n.* poems in general as a genre of literature
52. ch_____c theory *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
53. the evidence of the pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
54. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
55. an in_____l letter *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name
56. create sc_____re *n.* the art of creating three-dimensional objects or forms, typically by carving, modeling, or casting in a variety of materials such as stone, wood, metal, or clay
57. 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
58. gr_____e with problem *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

ANSWERS: 50. represent, 51. poetry, 52. chaotic, 53. presence, 54. determinant, 55. initial, 56. sculpture, 57. develop, 58. grapple

59. dis_____sh these two things *v.* to notice or understand the difference between two people or things
60. sh___r with delight *v.* to shake or quiver with cold, fear, or excitement; to tremble or vibrate rapidly
61. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
62. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
63. ready-made ph___es *n.* a group of words that mean something specific when used together
64. a simple me___y *n.* a succession of musical tones forming part of a larger piece of music
65. w__p for joy *v.* to cry tears because of sadness, rage, or pain
66. ex_____al commerce *adj.* belonging to or situated outside of someone or something
67. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
68. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
69. an indisputable lo__c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
70. in_____l velocity *adj.* of or happening at the beginning; (noun) the first letter of a word, especially a person's name

ANSWERS: 59. distinguish, 60. shiver, 61. sequence, 62. mathematics, 63. phrase, 64. melody, 65. weep, 66. external, 67. intelligent, 68. combine, 69. logic, 70. initial

71. scr_____ze her belongings *v.* to examine carefully and critically; to inspect closely
72. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
73. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
74. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
75. the me____y of a tune *n.* a succession of musical tones forming part of a larger piece of music
76. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
77. scr_____ze a suspect *v.* to examine carefully and critically; to inspect closely
78. the ul_____te luxury *adj.* furthest or highest in degree or order
79. human ev_____on *n.* a gradual process of transformation of living things
80. corn yi__d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

ANSWERS: 71. scrutinize, 72. function, 73. sequence, 74. artificial, 75. melody, 76. evolutionary, 77. scrutinize, 78. ultimate, 79. evolution, 80. yield

81. his majestic pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
82. gl___e at him miserably *v.* to give a quick or brief look; to hit something at an angle
83. excite the ne___ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
84. 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)
85. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
86. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
87. ex_____al factors *adj.* belonging to or situated outside of someone or something
88. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
89. gl___e around nervously *v.* to give a quick or brief look; to hit something at an angle
90. the_____al physicist *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

ANSWERS: 81. presence, 82. glance, 83. neuron, 84. recombine, 85. intelligence, 86. random, 87. external, 88. intelligence, 89. glance, 90. theoretical

91. improved student ou____es *n.* the result or effect of an action, event, etc.
92. cultural and ar____ic activity *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
93. chaotic env____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
94. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
95. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
96. a ra____m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
97. the RSA al____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
98. the ul____te goal in life *adj.* furthest or highest in degree or order
99. clear in____on *n.* something you want to do and are going to do
100. in____on research *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

ANSWERS: 91. outcome, 92. artistic, 93. environment, 94. biology, 95. process, 96. random, 97. algorithm, 98. ultimate, 99. intention, 100. intuition

101. the sp__e of a book *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
102. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
103. a fr____onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
104. w__p bitter tears *v.* to cry tears because of sadness, rage, or pain
105. modern po____y *n.* poems in general as a genre of literature
106. series of exp____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
107. a demonstration in lo__c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
108. she hit him int_____lly *adv.* in a planned or intended way
109. abstract sc____re *n.* the art of creating three-dimensional objects or forms, typically by carving, modeling, or casting in a variety of materials such as stone, wood, metal, or clay

ANSWERS: 101. spine, 102. process, 103. fraction, 104. weep, 105. poetry, 106. experiment, 107. logic, 108. intentionally, 109. sculpture

110. rep_____ion system *n.* the process by which organisms create offspring; the production of something similar to an original work
111. midst of ch__s *n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control
112. hereditary mu_____on *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
113. ae_____ic value *adj.* connected with the enjoyment or study of beauty
114. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
115. pr_____e the amendment *v.* to make a proposal, declare a plan for something
116. creative in_____on *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
117. co_____e an essay *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
118. re_____e a phone *v.* to take the place of something
119. a desirable ou_____e *n.* the result or effect of an action, event, etc.
120. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 110. reproduction, 111. chaos, 112. mutation, 113. aesthetic, 114. biology, 115. propose, 116. intuition, 117. compose, 118. replace, 119. outcome, 120. neuron

121. dis_____sh man from the other animals *v.* to notice or understand the difference between two people or things
122. co_____e augmented reality *v.* to join or merge to form a single thing or group
123. 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)
124. 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
125. int_____nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
126. rep_____ion rate *n.* the process by which organisms create offspring; the production of something similar to an original work
127. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
128. re_____e one word with another *v.* to take the place of something
129. ac___d with public opinion *n.* an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have
130. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 121. distinguish, 122. combine, 123. recombine, 124. algorithm, 125. intelligent, 126. reproduction, 127. mimic, 128. replace, 129. accord, 130. mathematics

Session 3: Fill in the Blanks

1. The ancient Greek _____ are known for their realism and attention to detail.
 - n.* the art of creating three-dimensional objects or forms, typically by carving, modeling, or casting in a variety of materials such as stone, wood, metal, or clay

2. Did this response _____ your request?
 - v.* to make somebody pleased by giving them what they want or need

3. Our system can now _____ with other databases.
 - v.* to connect similar things

4. In terms of _____ he was head and shoulders above his classmates.
 - n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

5. The conference room was in _____ as everyone tried to speak at once.
 - n.* a state of complete confusion or disorder, often characterized by a lack of predictability or control

6. I _____ in the cold winter air as I wait for the train.
 - v.* to shake or quiver with cold, fear, or excitement; to tremble or vibrate rapidly

7. The brain is an incredibly complex organ that controls the body's _____.
 - n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 1. sculptures, 2. satisfy, 3. interconnect, 4. intelligence, 5. chaos, 6. shiver, 7. function

8. 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
9. To find drunk drivers, police conduct _____ tests.
- adj.* made, done, or happening without method, conscious decision, or any regular pattern
10. My _____ standards are quite different from hers.
- adj.* connected with the enjoyment or study of beauty
11. We bought a Spanish _____ book.
- n.* a group of words that mean something specific when used together
12. The company's stock gives a high _____.
- n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
13. 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
14. The picture was _____ because it was taken with an old camera.
- adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
15. 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

ANSWERS: 8. environment, 9. random, 10. aesthetic, 11. phrase, 12. yield, 13. algorithm, 14. fuzzy, 15. presence

16. Absolute zero is the lowest _____ temperature.

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

17. Our body transfers information along each _____ using an electrical impulse.

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

18. The _____ intelligence system has revolutionized the way we live and work.

adj. not natural and made by human beings; not real but produced to resemble something

19. He needed to _____ with structural reforms to improve the company's revenue.

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

20. Change is also occurring in Turkey as a result of _____ reform.

adj. without any order or organization; extremely disorganized, unpredictable, and confusing

21. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

22. This study _____ four different ways to run a business.

v. to notice or understand the difference between two people or things

23. I want to _____ a toast in honor of our longstanding relationship.

v. to make a proposal, declare a plan for something

ANSWERS: 16. theoretical, 17. neuron, 18. artificial, 19. grapple, 20. chaotic, 21. combine, 22. distinguished, 23. propose

24. One _____ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
25. The detective _____ the evidence for any clues.
- v.* to examine carefully and critically; to inspect closely
26. Different cultures have different comfortable word rhythms, so the composition of _____ varies greatly.
- n.* poems in general as a genre of literature
27. 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
28. Some studies suggest that people's _____ can be influenced by their experiences and biases.
- n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
29. _____ robots that can cooperate with humans have limited motor output for safety.
- adj.* having the capacity for thought and reason, especially to a high degree
30. When a company discloses information to the market, an _____ auditor verifies them.
- adj.* belonging to or situated outside of someone or something
31. There's no _____ in his description.
- n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

ANSWERS: 24. determinant, 25. scrutinized, 26. poetry, 27. genetic, 28. intuitions, 29. Intelligent, 30. external, 31. logic

32. They took the _____ step toward reconciliation.

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

33. I casually _____ into the small hut.

v. to give a quick or brief look; to hit something at an angle

34. The garden was full of _____ that needed to be pulled.

n. a wild plant growing where it is not wanted and in competition with cultivated plants

35. She would never _____ hurt anyone.

adv. in a planned or intended way

36. 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

37. _____ algorithms can find ways to optimize that humans do not anticipate.

adj. relating to or denoting how living things develop or change from earlier forms

38. The electrical _____ produced enough power to light up the entire city.

n. a machine that converts mechanical energy into electrical energy, typically consisting of a rotating coil or magnet within a magnetic field

39. The organization finally signed a peace _____.

n. an official agreement or treaty between two organizations, countries, etc.;
(verb) allow to have

ANSWERS: 32. initial, 33. glanced, 34. weeds, 35. intentionally, 36. develop, 37. Evolutionary, 38. dynamo, 39. accord

40. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
41. He spent only a _____ of his earnings.
n. a small part or item forming a piece of a whole; the quotient of two rational numbers
42. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
43. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
44. The _____ of the plant depends on the pollinators.
n. the process by which organisms create offspring; the production of something similar to an original work
45. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
46. We elected him to _____ us at the international conference.
v. to speak, act, or be present on behalf of another person or group; to form or constitute
47. Radiation often promotes genetic _____ in plants and animals.
n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

ANSWERS: 40. experiments, 41. fraction, 42. complexity, 43. sequence, 44. reproduction, 45. mathematics, 46. represent, 47. mutations

48. Promising entrepreneurs often have a high _____ sensibility.

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

49. She has a minor curved _____ due to desk work for many years.

n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column

50. The structure is _____ of three main components.

v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

51. He is very popular at school because he can _____ all the teachers' accents.

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

52. The judge instructed the _____ on the law and the evidence presented in the trial.

n. a group of people called upon to render a verdict or judgment in a legal trial; a group of people chosen for a special purpose or task

53. Eventually, the new design will _____ all older models.

v. to take the place of something

54. This harmonious _____ immortalized its composer.

n. a succession of musical tones forming part of a larger piece of music

55. In junior high school, we had to dissect a frog in _____ class.

n. the scientific study of life and the natural processes of living things

56. 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)

ANSWERS: 48. artistic, 49. spine, 50. composed, 51. mimic, 52. jury, 53. replace, 54. melody, 55. biology, 56. recombined

57. They awaited news of the _____ of the election.

n. the result or effect of an action, event, etc.

58. There are _____ methods for dealing with stress.

adj. too numerous to be counted or very many

59. The _____ for applying for a visa can be lengthy and complicated.

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

60. I'm a big ____ of French food.

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

61. Management must take _____ responsibility for the accident.

adj. furthest or highest in degree or order

62. I'm easily moved to tears, so I would _____ in sympathy if I saw that movie.

v. to cry tears because of sadness, rage, or pain

63. They study the _____ of the universe.

n. a gradual process of transformation of living things

64. 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

ANSWERS: 57. outcome, 58. countless, 59. process, 60. fan, 61. ultimate, 62. weep, 63. evolution, 64. creative

65. Our CEO's _____ are always transparent and straightforward.

n. something you want to do and are going to do

ANSWERS: 65. intentions