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Vocabulary Builder Reference from...

Ron Eglash: The fractals at the heart of African designs | TED Talk

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

Advanced Words Only

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Session 1: Word List

recursion

n. the process of repeating or looping through a set of instructions or functions within another function, often used in programming and computer science

synonym: iteration, looping, repetition

(1) **recursion** depth, (2) **recursion** limit

The team encountered an infinite **recursion** error in their code, causing the program to crash.

sanatorium

n. a medical facility or institution for the long-term treatment or care of people with chronic illnesses or diseases, especially tuberculosis

synonym: health resort, rehab center

(1) military **sanatorium**, (2) **sanatorium** resort

In the early 1900s, tuberculosis patients would check into a **sanatorium** for treatment.

subtract

v. to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole

synonym: deduct, take away, remove

(1) **subtract** numbers, (2) **subtract** one from the total

I need to **subtract** the cost of my expenses from my income to see how much money I have left.

rearrange

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

synonym : readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule

Please **rearrange** these files as we start a new project tomorrow.

iterate

- v. to repeat or do something again, often to make improvements or correct errors; to go over or revisit something repeatedly; to restate or emphasize a point or idea

synonym : repeat, reiterate, echo

(1) **iterate** results, (2) **iterate** an experiment

We need to **iterate** on this design to improve its functionality.

unfold

- v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

synonym : open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

consign

- v. to give over, entrust, or assign control of something, particularly to another person, for safekeeping or delivery; to designate or set aside something for a particular purpose or use

synonym : transfer, deliver, entrust

(1) **consign** to oblivion, (2) **consign** the rare coins to an auction house

I will **consign** these old clothes to the donation bin.

pathological

- adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy

synonym : aberrant, diseased, abnormal

(1) **pathological** liar, (2) **pathological** condition

The doctor was concerned that the patient's **pathological** fear of germs impacted their daily life.

fractal

n. a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations

synonym : pattern, design, geometry

(1) **fractal** pattern, (2) **fractal** art

The coastline of Norway is one of the most famous examples of **fractal** geometry in nature.

acacia

n. a tree or shrub of the mimosa family, typically with waxy or spiny leaves and clusters of showy flowers; a type of plant often found in warm and arid regions, particularly in Africa and Australia

synonym : wattle, mimosa, thorn tree

(1) **acacia** honey, (2) **acacia** wood

The **acacia** tree's leaves are a favorite food of giraffes.

fern

n. a non-flowering plant with long, feathery fronds that reproduce by spores rather than seeds

synonym : greenery, foliage, bracken

(1) **fern** leaves, (2) tropical **ferns**

The garden was filled with various plants, including a beautiful maidenhair **fern**.

crinkle

v. to form wrinkles, creases, or folds in a surface, especially in cloth or paper, often causing it to make a rustling sound; to make a rustling or crackling sound

synonym : wrinkle, crumple, crease

(1) **crinkle** my nose, (2) bag **crinkle** as I open

Her eyes **crinkled** with laughter as she told us a joke.

wrinkle

n. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

synonym : crinkle, fold, crumple

(1) a fine **wrinkle** on a fabric, (2) a facial **wrinkle**
This suit is made of **wrinkle-proof** material.

ironic

adj. using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect

synonym : sarcastic, wry, sardonic

(1) **ironic** result, (2) an **ironic** turn of events

It was **ironic** that the heavy rain started just as they set up for an outdoor picnic.

rectangle

n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

synonym : oblong, square, quadrangle

(1) orthogonal **rectangle**, (2) **rectangle** box

The living room had a **rectangle-shaped** coffee table in the center of it.

insignia

n. a badge, emblem, or symbol that represents a particular organization, office, or rank; a distinguishing mark or badge that indicates membership or affiliation with a particular group or organization

synonym : badge, emblem, crest

(1) naval **insignia**, (2) school **insignia**

The military uniform had a bright red **insignia** on the sleeve.

termite

n. a small, pale social insect that feeds on wood and can cause significant damage to wooden structures and furniture

synonym : woodworm, white ant, insect

(1) **termite** damage, (2) **termite** inspection

The house was infested with **termites** and required extensive repairs.

mound

n. a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap

synonym : hill, knoll, rise

(1) **mound** of dirt, (2) burial **mound**

The team discovered a hidden **mound** in the desert.

humming

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

synonym : buzzing, droning, vibrating

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

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

ancestor

n. a person from whom one is descended; a forefather

synonym : forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

replicate

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

synonym : duplicate, imitate, reproduce

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

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

calabash

n. a tropical plant of the gourd family, typically with a round or elongated fruit that can be dried and used as a container or utensil; the dried shell of this fruit used as a container or utensil

synonym : gourd, bottle gourd, squash

(1) **calabash** pipe, (2) carved **calabash**

The local market sells beautifully crafted **calabash** bowls.

threefold

adj. three times as great or as many

synonym : three, triple, three times

(1) rise nearly **threefold**, (2) **threefold** increase

The price of the item was reduced **threefold** after the sale.

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.

germ

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

synonym: bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment

The **germ** of his idea came from watching birds flying in flocks.

stylus

n. a thin, pointed tool used to write, draw, or select items on a touchscreen device

synonym: pen, pointer, cursor

(1) **stylus** pen, (2) **stylus** pocket

Many artists prefer to use a **stylus** over their fingers when drawing on a digital canvas.

spontaneously

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

synonym: impromptu, automatically, immediately

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

The electrical cord **spontaneously** combusted.

logarithm

n. a mathematical function that indicates the power to which a fixed number (the base) must be raised to produce another given number expressed as an exponent

synonym: mathematical function, exponent, power

(1) **logarithm** function, (2) **logarithm** table

To solve this equation, you must take both sides' **logarithms**.

exponent

n. a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself

synonym : advocate, representative, proponent

(1) **exponent** function, (2) the **exponent** of the free market

The CEO is an **exponent** of innovation and encourages employees to think outside the box.

divination

n. the practice of seeking knowledge of the future or unknown through supernatural means or the interpretation of omens, signs, and events

synonym : augury, prophecy, fortune-telling

(1) tarot **divination**, (2) **divination** ritual

The ancient practice of tea leaf **divination** involves interpreting the patterns left by tea leaves in a cup.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym : thrill, exhilarate, animate

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

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

bury

v. to place a dead body in the ground, grave, or tomb

synonym : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

leprosy

n. a chronic infectious disease that affects the skin, nerves, and mucous membranes and is caused by the bacterium *Mycobacterium leprae*, characterized by disfiguring skin lesions, nerve damage, and the loss of sensation in affected areas

synonym : Hansen's disease

(1) **leprosy** treatment, (2) the spread of **leprosy**

The World Health Organization is working to eradicate **leprosy** from all parts of the world.

deterministic

adj. characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

synonym : predictable, predetermined, certain

(1) **deterministic** approach, (2) **deterministic** system

The **deterministic** algorithm always produces the same result for a given input.

sideways

adv. towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle

synonym : to the edge, obliquely, sidelong

(1) fall **sideways**, (2) a **sideways** market

She glanced **sideways** at the conversation of the boy she was interested in.

modulo

adj. (of mathematics) referring to the remainder after division; pertaining to or based on the concept of modulus (= the remainder operation)

synonym : modular, remainder, residual

(1) solve **modulo** equation, (2) **modulo** arithmetic

The mathematician used the **modulo** function to calculate remainders.

mystic

adj. having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension

synonym : secret, mystical, supernatural

(1) **mystic** teaching, (2) medieval **mystic**

He is interested in the **mystic** rites of that religion.

alchemy

n. a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

synonym : sorcery, magic, transmutation

(1) **alchemy** experiment, (2) **alchemy** of emotions

Today, the study of **alchemy** remains an important part of the history of science and philosophy

geomancy

n. a divination practice or method of fortune-telling that involves interpreting patterns on the ground or the arrangement of objects, often using a particular method of casting or marking the Earth

synonym: divination, oracle, fortune-telling

(1) **geomancy** chart, (2) divination through **geomancy**

The practice of **geomancy** dates back thousands of years to ancient civilizations.

artifact

n. a person-made object, especially one of historical or cultural interest

synonym: antique, relic, heirloom

(1) paleolithic **artifacts**, (2) Peruvian **artifacts**

The museum has a vast collection of Greek **artifacts**.

singe

v. to burn something slightly or superficially, usually by mistake

synonym: sear, char, burn

(1) **singe** off the hair over the flames, (2) **singe** the edges of a fabric

I didn't realize the iron was still hot and **singed** my dress.

entrepreneurship

n. the process or skill of starting and running a business, particularly a new and innovative one

synonym: self-employment, risk-taking

(1) **entrepreneurship** culture, (2) embody

entrepreneurship

The government is investing in programs to support **entrepreneurship** and small business development.

egalitarian

adj. relating to or characterized by the belief in the equal rights, opportunities, and treatment of all people, regardless of their race, gender, or social class

synonym : equalitarian, democratic, fair

(1) **egalitarian** society, (2) **egalitarian** principles

The company prides itself on being an **egalitarian** workplace with equal employment opportunities.

Session 2: Spelling

1. the spread of le____y
n. a chronic infectious disease that affects the skin, nerves, and mucous membranes and is caused by the bacterium *Mycobacterium leprae*, characterized by disfiguring skin lesions, nerve damage, and the loss of sensation in affected areas
2. co____n to oblivion
v. to give over, entrust, or assign control of something, particularly to another person, for safekeeping or delivery; to designate or set aside something for a particular purpose or use
3. it____e an experiment
v. to repeat or do something again, often to make improvements or correct errors; to go over or revisit something repeatedly; to restate or emphasize a point or idea
4. a facial wr____e
n. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
5. recover spo_____sly after five days
adv. in a way that is natural, not planned or forced, and often sudden
6. ir____c result
adj. using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect
7. b__y in the earth
v. to place a dead body in the ground, grave, or tomb

ANSWERS: 1. leprosy, 2. consign, 3. iterate, 4. wrinkle, 5. spontaneously, 6. ironic, 7. bury

8. ge____cy chart *n.* a divination practice or method of fortune-telling that involves interpreting patterns on the ground or the arrangement of objects, often using a particular method of casting or marking the Earth
9. Peruvian ar____cts *n.* a person-made object, especially one of historical or cultural interest
10. su____ct numbers *v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
11. ex____nt function *n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself
12. hu____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
13. tropical f__ns *n.* a non-flowering plant with long, feathery fronds that reproduce by spores rather than seeds
14. cr____e my nose *v.* to form wrinkles, creases, or folds in a surface, especially in cloth or paper, often causing it to make a rustling sound; to make a rustling or crackling sound
15. earliest human an____or *n.* a person from whom one is descended; a forefather
16. re____on limit *n.* the process of repeating or looping through a set of instructions or functions within another function, often used in programming and computer science

ANSWERS: 8. geomancy, 9. artifact, 10. subtract, 11. exponent, 12. humming, 13. fern, 14. crinkle, 15. ancestor, 16. recursion

17. the ex____nt of the free market *n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself
18. re_____te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
19. ac___a wood *n.* a tree or shrub of the mimosa family, typically with waxy or spiny leaves and clusters of showy flowers; a type of plant often found in warm and arid regions, particularly in Africa and Australia
20. le_____y treatment *n.* a chronic infectious disease that affects the skin, nerves, and mucous membranes and is caused by the bacterium *Mycobacterium leprae*, characterized by disfiguring skin lesions, nerve damage, and the loss of sensation in affected areas
21. mo___o arithmetic *adj.* (of mathematics) referring to the remainder after division; pertaining to or based on the concept of modulus (= the remainder operation)
22. re_____ge the furniture *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
23. burial mo__d *n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap

ANSWERS: 17. exponent, 18. replicate, 19. acacia, 20. leprosy, 21. modulo, 22. rearrange, 23. mound

24. an ir___c turn of events *adj.* using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect
25. san_____um resort *n.* a medical facility or institution for the long-term treatment or care of people with chronic illnesses or diseases, especially tuberculosis
26. st___s pocket *n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
27. fr_____l pattern *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
28. det_____tic system *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
29. ac___a honey *n.* a tree or shrub of the mimosa family, typically with waxy or spiny leaves and clusters of showy flowers; a type of plant often found in warm and arid regions, particularly in Africa and Australia
30. solve mo___o equation *adj.* (of mathematics) referring to the remainder after division; pertaining to or based on the concept of modulus (= the remainder operation)
31. a si_____ys market *adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle

ANSWERS: 24. ironic, 25. sanatorium, 26. stylus, 27. fractal, 28. deterministic, 29. acacia, 30. modulo, 31. sideways

32. re_____ge his schedule *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
33. an_____or language *n.* a person from whom one is descended; a forefather
34. naval in_____ia *n.* a badge, emblem, or symbol that represents a particular organization, office, or rank; a distinguishing mark or badge that indicates membership or affiliation with a particular group or organization
35. rise nearly th_____ld *adj.* three times as great or as many
36. re_____te the cell *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
37. f__n leaves *n.* a non-flowering plant with long, feathery fronds that reproduce by spores rather than seeds
38. 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
39. ega_____an principles *adj.* relating to or characterized by the belief in the equal rights, opportunities, and treatment of all people, regardless of their race, gender, or social class
40. th_____ld increase *adj.* three times as great or as many
41. military san_____um *n.* a medical facility or institution for the long-term treatment or care of people with chronic illnesses or diseases, especially tuberculosis

ANSWERS: 32. rearrange, 33. ancestor, 34. insignia, 35. threefold, 36. replicate, 37. fern, 38. intuition, 39. egalitarian, 40. threefold, 41. sanatorium

42. pat_____cal liar *adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy
43. mo__d of dirt *n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap
44. si__e the edges of a fabric *v.* to burn something slightly or superficially, usually by mistake
45. carved ca_____sh *n.* a tropical plant of the gourd family, typically with a round or elongated fruit that can be dried and used as a container or utensil; the dried shell of this fruit used as a container or utensil
46. ca_____sh pipe *n.* a tropical plant of the gourd family, typically with a round or elongated fruit that can be dried and used as a container or utensil; the dried shell of this fruit used as a container or utensil
47. medieval my____c *adj.* having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension
48. fr_____l art *n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations
49. bag cr_____e as I open *v.* to form wrinkles, creases, or folds in a surface, especially in cloth or paper, often causing it to make a rustling sound; to make a rustling or crackling sound

ANSWERS: 42. pathological, 43. mound, 44. singe, 45. calabash, 46. calabash, 47. mystic, 48. fractal, 49. crinkle

50. ex___e rebellion
51. al____y of emotions
52. ega_____an society
53. it_____e results
54. lo_____hm table
55. in_____on research
56. div_____on ritual
- v.* to make someone feel suddenly enthusiastic or eager
- n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious
- adj.* relating to or characterized by the belief in the equal rights, opportunities, and treatment of all people, regardless of their race, gender, or social class
- v.* to repeat or do something again, often to make improvements or correct errors; to go over or revisit something repeatedly; to restate or emphasize a point or idea
- n.* a mathematical function that indicates the power to which a fixed number (the base) must be raised to produce another given number expressed as an exponent
- 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
- n.* the practice of seeking knowledge of the future or unknown through supernatural means or the interpretation of omens, signs, and events

ANSWERS: 50. excite, 51. alchemy, 52. egalitarian, 53. iterate, 54. logarithm, 55. intuition, 56. divination

57. si__e off the hair over the flames *v.* to burn something slightly or superficially, usually by mistake
58. ent_____hip culture *n.* the process or skill of starting and running a business, particularly a new and innovative one
59. det_____tic approach *adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations
60. a fine wr_____e on a fabric *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
61. orthogonal re_____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
62. te_____e inspection *n.* a small, pale social insect that feeds on wood and can cause significant damage to wooden structures and furniture
63. pat_____cal condition *adj.* relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy
64. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
65. lo_____hm function *n.* a mathematical function that indicates the power to which a fixed number (the base) must be raised to produce another given number expressed as an exponent

ANSWERS: 57. singe, 58. entrepreneurship, 59. deterministic, 60. wrinkle, 61. rectangle, 62. termite, 63. pathological, 64. bury, 65. logarithm

66. re_____le box *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
67. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
68. divination through ge_____cy *n.* a divination practice or method of fortune-telling that involves interpreting patterns on the ground or the arrangement of objects, often using a particular method of casting or marking the Earth
69. my___c teaching *adj.* having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension
70. te_____e damage *n.* a small, pale social insect that feeds on wood and can cause significant damage to wooden structures and furniture
71. tarot div_____on *n.* the practice of seeking knowledge of the future or unknown through supernatural means or the interpretation of omens, signs, and events
72. school in_____ia *n.* a badge, emblem, or symbol that represents a particular organization, office, or rank; a distinguishing mark or badge that indicates membership or affiliation with a particular group or organization

ANSWERS: 66. rectangle, 67. germ, 68. geomancy, 69. mystic, 70. termite, 71. divination, 72. insignia

73. co____n the rare coins to an auction house *v.* to give over, entrust, or assign control of something, particularly to another person, for safekeeping or delivery; to designate or set aside something for a particular purpose or use
74. re_____on depth *n.* the process of repeating or looping through a set of instructions or functions within another function, often used in programming and computer science
75. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
76. un___d the story *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
77. paleolithic ar_____cts *n.* a person-made object, especially one of historical or cultural interest
78. su_____ct one from the total *v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
79. st___s pen *n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
80. this shift occurs spo_____sly *adv.* in a way that is natural, not planned or forced, and often sudden
81. un___d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
82. al_____y experiment *n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

ANSWERS: 73. consign, 74. recursion, 75. excite, 76. unfold, 77. artifact, 78. subtract, 79. stylus, 80. spontaneously, 81. unfold, 82. alchemy

83. embody ent_____hip *n.* the process or skill of starting and running a business, particularly a new and innovative one
84. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
85. hu____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
86. fall si____ys *adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle

ANSWERS: 83. entrepreneurship, 84. germ, 85. humming, 86. sideways

Session 3: Fill in the Blanks

1. The living room had a _____ coffee table in the center of it.
 - n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

2. The _____ algorithm always produces the same result for a given input.
 - adj.* characterized by an assumption of cause and effect and the absence of chance or randomness, often used to describe scientific or engineering calculations

3. I will _____ these old clothes to the donation bin.
 - v.* to give over, entrust, or assign control of something, particularly to another person, for safekeeping or delivery; to designate or set aside something for a particular purpose or use

4. Please _____ these files as we start a new project tomorrow.
 - v.* to change the order or position of things already made; to change the time, date, or place of an event already planned

5. There is plenty of space to _____ everyone.
 - v.* to place a dead body in the ground, grave, or tomb

6. The mystery _____ as the detectives gathered more clues.
 - v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

7. The coastline of Norway is one of the most famous examples of _____ geometry in nature.
 - n.* a complex geometric pattern or shape that repeats itself on smaller and smaller scales, often occurring in nature or mathematical equations

ANSWERS: 1. rectangle-shaped, 2. deterministic, 3. consign, 4. rearrange, 5. bury, 6. unfolded, 7. fractal

8. The team discovered a hidden _____ in the desert.
- n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap
9. The local market sells beautifully crafted _____ bowls.
- n.* a tropical plant of the gourd family, typically with a round or elongated fruit that can be dried and used as a container or utensil; the dried shell of this fruit used as a container or utensil
10. The CEO is an _____ of innovation and encourages employees to think outside the box.
- n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself
11. The ancient practice of tea leaf _____ involves interpreting the patterns left by tea leaves in a cup.
- n.* the practice of seeking knowledge of the future or unknown through supernatural means or the interpretation of omens, signs, and events
12. The _____ of the bees filled the air as she walked through the garden.
- adj.* producing a continuous, low, vibrating sound like that of the bee
13. The practice of _____ dates back thousands of years to ancient civilizations.
- n.* a divination practice or method of fortune-telling that involves interpreting patterns on the ground or the arrangement of objects, often using a particular method of casting or marking the Earth
14. The house was infested with _____ and required extensive repairs.
- n.* a small, pale social insect that feeds on wood and can cause significant damage to wooden structures and furniture

ANSWERS: 8. mound, 9. calabash, 10. exponent, 11. divination, 12. humming, 13. geomancy, 14. termites

15. The government is investing in programs to support _____ and small business development.
- n.* the process or skill of starting and running a business, particularly a new and innovative one
16. The price of the item was reduced _____ after the sale.
- adj.* three times as great or as many
17. The garden was filled with various plants, including a beautiful maidenhair ____.
- n.* a non-flowering plant with long, feathery fronds that reproduce by spores rather than seeds
18. I need to _____ the cost of my expenses from my income to see how much money I have left.
- v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
19. Her eyes _____ with laughter as she told us a joke.
- v.* to form wrinkles, creases, or folds in a surface, especially in cloth or paper, often causing it to make a rustling sound; to make a rustling or crackling sound
20. The museum has a vast collection of Greek _____.
- n.* a person-made object, especially one of historical or cultural interest
21. To solve this equation, you must take both sides' _____.
- n.* a mathematical function that indicates the power to which a fixed number (the base) must be raised to produce another given number expressed as an exponent
22. Today, the study of _____ remains an important part of the history of science and philosophy
- n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

ANSWERS: 15. entrepreneurship, 16. threefold, 17. fern, 18. subtract, 19. crinkled, 20. artifacts, 21. logarithms, 22. alchemy

23. The World Health Organization is working to eradicate _____ from all parts of the world.
- n.* a chronic infectious disease that affects the skin, nerves, and mucous membranes and is caused by the bacterium *Mycobacterium leprae*, characterized by disfiguring skin lesions, nerve damage, and the loss of sensation in affected areas
24. Many artists prefer to use a _____ over their fingers when drawing on a digital canvas.
- n.* a thin, pointed tool used to write, draw, or select items on a touchscreen device
25. I didn't realize the iron was still hot and _____ my dress.
- v.* to burn something slightly or superficially, usually by mistake
26. In the early 1900s, tuberculosis patients would check into a _____ for treatment.
- n.* a medical facility or institution for the long-term treatment or care of people with chronic illnesses or diseases, especially tuberculosis
27. The news of her promotion _____ her.
- v.* to make someone feel suddenly enthusiastic or eager
28. She glanced _____ at the conversation of the boy she was interested in.
- adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
29. The _____ tree's leaves are a favorite food of giraffes.
- n.* a tree or shrub of the mimosa family, typically with waxy or spiny leaves and clusters of showy flowers; a type of plant often found in warm and arid regions, particularly in Africa and Australia

ANSWERS: 23. leprosy, 24. stylus, 25. singed, 26. sanatorium, 27. excited, 28. sideways, 29. acacia

30. The mathematician used the _____ function to calculate remainders.

adj. (of mathematics) referring to the remainder after division; pertaining to or based on the concept of modulus (= the remainder operation)

31. The team encountered an infinite _____ error in their code, causing the program to crash.

n. the process of repeating or looping through a set of instructions or functions within another function, often used in programming and computer science

32. He is interested in the _____ rites of that religion.

adj. having spiritual powers or qualities that are beyond ordinary understanding; (noun) someone who believes in the existence of realities beyond human comprehension

33. The doctor was concerned that the patient's _____ fear of germs impacted their daily life.

adj. relating to or caused by a physical or mental disease or disorder; extreme or abnormal in a way that is harmful or unhealthy

34. The experiment was _____ several times to ensure accuracy.

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

35. The _____ of his idea came from watching birds flying in flocks.

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

36. This suit is made of _____ material.

n. a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

ANSWERS: 30. modulo, 31. recursion, 32. mystic, 33. pathological, 34. replicated, 35. germ, 36. wrinkle-proof

37. It was _____ that the heavy rain started just as they set up for an outdoor picnic.

adj. using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect

38. The electrical cord _____ combusted.

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

39. The military uniform had a bright red _____ on the sleeve.

n. a badge, emblem, or symbol that represents a particular organization, office, or rank; a distinguishing mark or badge that indicates membership or affiliation with a particular group or organization

40. 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

41. My remote _____ immigrated to the United States from Ireland in the 1800s.

n. a person from whom one is descended; a forefather

42. The company prides itself on being an _____ workplace with equal employment opportunities.

adj. relating to or characterized by the belief in the equal rights, opportunities, and treatment of all people, regardless of their race, gender, or social class

43. We need to _____ on this design to improve its functionality.

v. to repeat or do something again, often to make improvements or correct errors; to go over or revisit something repeatedly; to restate or emphasize a point or idea

ANSWERS: 37. ironic, 38. spontaneously, 39. insignia, 40. intuitions, 41. ancestor, 42. egalitarian, 43. iterate

ANSWERS: