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Vocabulary Builder Reference from...

Shohini Ghose: A beginner's guide to quantum computing | TED Talk

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

Advanced Words Only

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Session 1: Word List

solitaire

n. a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones

synonym : patience, loneliness, solo game

(1) **solitaire** game, (2) **solitaire** diamond

My grandmother loved to play **solitaire** with a deck of cards every afternoon.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

nonbinary

adj. someone who does not identify as a man or a woman; not relating to, composed of, or including only two things

synonym : pluralistic, polyphyletic

(1) **nonbinary** gender, (2) **nonbinary** identities

More and more people in various countries believe that the policymaker should change the marriage rules for **nonbinary**

people.

superposition

n. a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time

synonym : overlay, overlap

(1) quantum **superposition**, (2) **superposition** theorem

The **superposition** of waves can result in either constructive or destructive interference.

probabilistic

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

synonym : probable, statistical, likely

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

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

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym : confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

encrypt

v. to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons

synonym : encode, cipher, scramble

(1) **encrypt** data, (2) **encrypt** message

To protect their sensitive information, many businesses **encrypt** their files.

unbreakable

adj. not able to be broken or damaged

synonym : indestructible, durable, sturdy

(1) **unbreakable** bond, (2) **unbreakable** commitment

This titanium bike frame is advertised as **unbreakable**.

institutionalize

v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

synonym: formalize, establish, regularize

(1) **institutionalize** a system, (2) **institutionalize** customary laws

The new policy aims to **institutionalize** the use of renewable energy sources.

secondly

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

synonym: in the second place, next, subsequently

(1) **secondly** connected, (2) **secondly**, it is important

Firstly, we will discuss the budget; **secondly**, we will go over the schedule.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

supercomputer

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

synonym: high-performance computer, mainframe, giant computer

(1) **supercomputer** performance, (2) **supercomputer** technology

China has developed one of the world's fastest **supercomputers** for its space program.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

teleport

v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

synonym: beam, transport, transmit

(1) **teleport** objects through space, (2) **teleport** to any location in the world

The magician seemed to **teleport** instantly from one side of the stage to the other.

entangle

v. to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape

synonym: ensnare, entrap, involve

(1) **entangle** in wires, (2) emotionally **entangle**

The vines of the plant **entangled** themselves around the trellis.

physicist

n. a scientist who specializes in the field of physics

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

Einstein was an outstanding and famous **physicist** of the 20th century.

wonderland

n. a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland

synonym: fantasyland, dreamland, fairyland

(1) magical **wonderland**, (2) Alice's **wonderland**

The colorful garden was a **wonderland** of various plants and flowers.

tread

v. to step or walk on something

synonym: step, walk, pace

(1) **tread** water, (2) **tread** a similar path
He **treads** carefully on the slippery ice.

ingenuity

n. the quality of inventing things or solving problems in clever new ways

synonym: creativity, invention, originality

(1) the infinite **ingenuity** of man, (2) abound in **ingenuity**
Creativity and **ingenuity** are often brought about by extreme concentration.

Session 2: Spelling

1. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
2. Al_____er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
3. emotionally en_____le *v.* to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
4. Alice's won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland
5. sup_____ion theorem *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
6. en_____t message *v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons

ANSWERS: 1. medicinal, 2. Alzheimer, 3. entangle, 4. wonderland, 5. superposition, 6. encrypt

7. so_____re game *n.* a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones
8. se_____ly, it is important *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.
9. en_____t data *v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons
10. tr__d water *v.* to step or walk on something
11. ins_____ize a system *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
12. ins_____ize customary laws *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
13. sup_____ter technology *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
14. se_____ly connected *adv.* used to introduce the second point or item in a list or series of statements, considerations, etc.

ANSWERS: 7. solitaire, 8. secondly, 9. encrypt, 10. tread, 11. institutionalize, 12. institutionalize, 13. supercomputer, 14. secondly

15. pro_____tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
16. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
17. co_____e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
18. so_____re diamond *n.* a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones
19. sup_____ter performance *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
20. pro_____tic approach *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
21. co_____e the listener *v.* to mistake one thing for another; to make somebody hard to understand
22. te_____rt objects through space *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers

ANSWERS: 15. probabilistic, 16. rev, 17. confuse, 18. solitaire, 19. supercomputer, 20. probabilistic, 21. confuse, 22. teleport

23. no_____ry identities *adj.* someone who does not identify as a man or a woman; not relating to, composed of, or including only two things
24. tr__d a similar path *v.* to step or walk on something
25. en_____le in wires *v.* to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape
26. quantum sup_____ion *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
27. traditional me_____al *adj.* of or relating to the treatment or cure of disease
28. talented ph_____st *n.* a scientist who specializes in the field of physics
29. te_____rt to any location in the world *v.* to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
30. magical won_____nd *n.* a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland

ANSWERS: 23. nonbinary, 24. tread, 25. entangle, 26. superposition, 27. medicinal, 28. physicist, 29. teleport, 30. wonderland

31. unb_____le commitment *adj.* not able to be broken or damaged
32. abound in in_____ty *n.* the quality of inventing things or solving problems in clever new ways
33. theoretical ph_____st *n.* a scientist who specializes in the field of physics
34. the infinite in_____ty of man *n.* the quality of inventing things or solving problems in clever new ways
35. no_____ry gender *adj.* someone who does not identify as a man or a woman; not relating to, composed of, or including only two things
36. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
37. unb_____le bond *adj.* not able to be broken or damaged
38. Al_____er's risk factors *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

ANSWERS: 31. unbreakable, 32. ingenuity, 33. physicist, 34. ingenuity, 35. nonbinary, 36. rev, 37. unbreakable, 38. Alzheimer

Session 3: Fill in the Blanks

1. Creativity and _____ are often brought about by extreme concentration.
n. the quality of inventing things or solving problems in clever new ways
2. He stepped on the gas pedal, and the engine released a loud _____.
n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
3. My grandmother loved to play _____ with a deck of cards every afternoon.
n. a single-player game or activity often played with cards or on a computer; a type of diamond or jewel that is set alone in a piece of jewelry with no accompanying stones
4. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
5. In a _____ system, the outcome is uncertain and can vary based on chance.
adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
6. The magician seemed to _____ instantly from one side of the stage to the other.
v. to transport or transmit instantly from one location to another, typically using advanced technology or imagined supernatural powers
7. More and more people in various countries believe that the policymaker should change the marriage rules for _____ people.
adj. someone who does not identify as a man or a woman; not relating to, composed of, or including only two things

ANSWERS: 1. ingenuity, 2. rev, 3. solitaire, 4. medicinal, 5. probabilistic, 6. teleport, 7. nonbinary

8. The _____ of waves can result in either constructive or destructive interference.
- n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
9. He _____ carefully on the slippery ice.
- v.* to step or walk on something
10. The new policy aims to _____ the use of renewable energy sources.
- v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
11. Her remarks _____ the debate.
- v.* to mistake one thing for another; to make somebody hard to understand
12. To protect their sensitive information, many businesses _____ their files.
- v.* to convert information or data into a code, thereby making it unreadable without a key or password; to conceal or obscure information in a way that makes it inaccessible to unauthorized persons
13. China has developed one of the world's fastest _____ for its space program.
- n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
14. This titanium bike frame is advertised as _____.
- adj.* not able to be broken or damaged

ANSWERS: 8. superposition, 9. treads, 10. institutionalize, 11. confused, 12. encrypt, 13. supercomputers, 14. unbreakable

15. Firstly, we will discuss the budget; _____ we will go over the schedule.

adv. used to introduce the second point or item in a list or series of statements, considerations, etc.

16. My grandmother has _____ disease requires special care and attention from her caregivers.

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

17. Einstein was an outstanding and famous _____ of the 20th century.

n. a scientist who specializes in the field of physics

18. The vines of the plant _____ themselves around the trellis.

v. to become twisted or knotted together, especially in a way that makes it difficult to separate them; to involve in something complicated or difficult to escape

19. The colorful garden was a _____ of various plants and flowers.

n. a place or situation that is delightful or enchanting, often characterized by a dreamlike or surreal quality; a reference to the fictional world from Lewis Carroll's Alice's Adventures in Wonderland

ANSWERS: 15. secondly, 16. Alzheimer's, 17. physicist, 18. entangled, 19. wonderland