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Vocabulary Builder Reference from...

Pratik Aghor: The greatest mathematician that never lived | TED Talk

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

Advanced Words Only

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Session 1: Word List

disarray

n. the state of disorganization or untidiness in a situation or place; a mental state characterized by a lack of clear and orderly thought and behavior

synonym: chaos, mess, confusion

(1) fall into **disarray**, (2) with her clothes in **disarray** .

The country's economic policies have led to political **disarray**.

disparate

adj. very different or distinct from something else and is not connected or comparable in any way

synonym: different, distinct, separate

(1) **disparate** impact, (2) physically **disparate** location

The organization worked to bring together **disparate** groups in the community.

disjointed

adj. lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented

synonym: disconnected, disordered, incoherent

(1) **disjointed** speech, (2) **disjointed** narrative

The **disjointed** plot of the movie left many viewers needing clarification and satisfaction.

axiom

n. a statement or principle that is regarded as being self-evidently true and does not require proof or

justification; a fundamental truth upon which other truths or theories are based

synonym: principle, maxim, postulate

(1) self-evident **axiom**, (2) fundamental **axiom**

It is an **axiom** in mathematics that two parallel lines never intersect.

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**.

inject

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

synonym: shoot, infiltrate, insinuate

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

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

surjective

adj. relating to a function in mathematics that maps every element in the codomain or range to at least one element in the domain

(1) **surjective** linear transformation, (2) **surjective** mapping
Mathematicians use **surjective** functions to map one set onto another.

bijjective

adj. (of mathematics) describing a function that is both injective (every element in the range is mapped to by at most one element in the domain) and surjective (every element in the range is mapped to by at least one element in the domain)

synonym: one-to-one, injective, invertible

(1) **bijjective** correspondence, (2) **bijjective** transformation
In mathematics, a **bijjective** function has a one-to-one mapping between two sets.

stark

adj. empty, simple, or apparent; devoid of any qualifications
synonym: crude, blunt, desolate

(1) **stark** landscape, (2) **stark** truth

The scenery of the battlefield was **stark** and grey.

constrain

v. to restrict or limit someone or something's freedom or ability to do something

synonym: restrict, limit, confine

(1) **constrain** his freedom, (2) **constrain** information flow

The political situation **constrained** the country's economic growth and foreign relations.

rebellious

adj. characterized by a tendency to rebel or resist authority or conventions; inclined to do the opposite of what is expected or customary

synonym: disobedient, defiant, insubordinate

(1) **rebellious** teenager, (2) **rebellious** spirit

Her **rebellious** attitude often got her into trouble with the school authorities.

glee

n. a feeling of great happiness, joy, or pleasure, often accompanied by laughter or exuberance; a sense of delighted satisfaction from a positive result or accomplishment

synonym: delight, happiness, joy

(1) jumping for **glee**, (2) **glee** club

The children's faces were filled with **glee** as they ran around the playground.

stunt

n. a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a

physical or mental sense

synonym: feat, accomplishment, (verb) hinder

(1) skydiving **stunt**, (2) **stunt** brain growth

The daredevil attempted a dangerous **stunt** by jumping off a tall building with a parachute.

pseudonym

n. a name someone, especially a writer, uses instead of their real name; a pen name

synonym: anonym, alias, nickname

(1) hide behind a **pseudonym**, (2) digital **pseudonym**

The author published these writings under a **pseudonym**.

prank

n. a playful or mischievous trick, practical joke, or act of mischief performed with the intention of amusing or surprising others

synonym: hoax, trick, stunt

(1) **prank** caller, (2) harmless **prank**

The group of teenagers played an innocent **prank** on their teacher, but it backfired, and they got in trouble.

recluse

n. a person who lives in solitude and isolation

synonym: hermit, solitary, loner

(1) live as a **recluse**, (2) solitary **recluse**

After years in the limelight, the actor decided to retreat from the public eye and become a **recluse**.

telegram

n. a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications

synonym: wire, message, cablegram

(1) **telegram** service, (2) a congratulatory **telegram**

He sent a **telegram** to let his family know he was safe.

ruse

n. a trick or deception used to achieve a strategic or tactical advantage; a strategy or plan used to deceive or

mislead someone

synonym: stratagem, ploy, trick

(1) plan a **ruse**, (2) elaborate **ruse**

The thief used a clever **ruse** to access the bank's vault.

obituary

n. a notice of someone's death, often appearing in a newspaper or online; a published account of someone's life and achievements after their death

synonym: death notice, memorial, necrology

(1) **obituary** notice, (2) **obituary** column

The man's **obituary** was published in the local newspaper.

pun

n. a humorous play on words or use of words that sound similar but have different meanings, often for a comedic effect; a form of wordplay

synonym: joke, quip, wordplay

(1) witty **pun**, (2) silly **pun**

The comedian's **pun** had the audience laughing out loud.

Session 2: Spelling

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|--------------------------|---|
| 1. elaborate r__e | <i>n.</i> a trick or deception used to achieve a strategic or tactical advantage; a strategy or plan used to deceive or mislead someone |
| 2. in___t under the skin | <i>v.</i> to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube) |
| 3. di_____te impact | <i>adj.</i> very different or distinct from something else and is not connected or comparable in any way |
| 4. witty p_n | <i>n.</i> a humorous play on words or use of words that sound similar but have different meanings, often for a comedic effect; a form of wordplay |
| 5. sur_____ve mapping | <i>adj.</i> relating to a function in mathematics that maps every element in the codomain or range to at least one element in the domain |
| 6. st__k landscape | <i>adj.</i> empty, simple, or apparent; devoid of any qualifications |
| 7. r_v up the crowd | <i>n.</i> 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 |
| 8. st__k truth | <i>adj.</i> empty, simple, or apparent; devoid of any qualifications |

ANSWERS: 1. ruse, 2. inject, 3. disparate, 4. pun, 5. surjective, 6. stark, 7. rev, 8. stark

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| 9. with her clothes in di____ay. | <i>n.</i> the state of disorganization or untidiness in a situation or place; a mental state characterized by a lack of clear and orderly thought and behavior |
| 10. te____am service | <i>n.</i> a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications |
| 11. dis____ed narrative | <i>adj.</i> lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented |
| 12. low-r_v engine | <i>n.</i> 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 |
| 13. dis____ed speech | <i>adj.</i> lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented |
| 14. sur____ve linear transformation | <i>adj.</i> relating to a function in mathematics that maps every element in the codomain or range to at least one element in the domain |
| 15. a congratulatory te____am | <i>n.</i> a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications |

ANSWERS: 9. disarray, 10. telegram, 11. disjointed, 12. rev, 13. disjointed, 14. surjective, 15. telegram

16. bi_____ve correspondence *adj.* (of mathematics) describing a function that is both injective (every element in the range is mapped to by at most one element in the domain) and surjective (every element in the range is mapped to by at least one element in the domain)
17. st__t brain growth *n.* a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense
18. silly p_n *n.* a humorous play on words or use of words that sound similar but have different meanings, often for a comedic effect; a form of wordplay
19. digital ps_____ym *n.* a name someone, especially a writer, uses instead of their real name; a pen name
20. fall into di_____ay *n.* the state of disorganization or untidiness in a situation or place; a mental state characterized by a lack of clear and orderly thought and behavior
21. bi_____ve transformation *adj.* (of mathematics) describing a function that is both injective (every element in the range is mapped to by at most one element in the domain) and surjective (every element in the range is mapped to by at least one element in the domain)

ANSWERS: 16. bijective, 17. stunt, 18. pun, 19. pseudonym, 20. disarray, 21. bijective

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| 22. co_____in information flow | <i>v.</i> to restrict or limit someone or something's freedom or ability to do something |
| 23. physically di_____te location | <i>adj.</i> very different or distinct from something else and is not connected or comparable in any way |
| 24. harmless pr__k | <i>n.</i> a playful or mischievous trick, practical joke, or act of mischief performed with the intention of amusing or surprising others |
| 25. reb_____us spirit | <i>adj.</i> characterized by a tendency to rebel or resist authority or conventions; inclined to do the opposite of what is expected or customary |
| 26. ob_____ry notice | <i>n.</i> a notice of someone's death, often appearing in a newspaper or online; a published account of someone's life and achievements after their death |
| 27. fundamental ax__m | <i>n.</i> a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based |
| 28. g__e club | <i>n.</i> a feeling of great happiness, joy, or pleasure, often accompanied by laughter or exuberance; a sense of delighted satisfaction from a positive result or accomplishment |
| 29. self-evident ax__m | <i>n.</i> a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based |

ANSWERS: 22. constrain, 23. disparate, 24. prank, 25. rebellious, 26. obituary, 27. axiom, 28. glee, 29. axiom

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| 30. jumping for g__e | <i>n.</i> a feeling of great happiness, joy, or pleasure, often accompanied by laughter or exuberance; a sense of delighted satisfaction from a positive result or accomplishment |
| 31. co_____in his freedom | <i>v.</i> to restrict or limit someone or something's freedom or ability to do something |
| 32. plan a r__e | <i>n.</i> a trick or deception used to achieve a strategic or tactical advantage; a strategy or plan used to deceive or mislead someone |
| 33. solitary re_____e | <i>n.</i> a person who lives in solitude and isolation |
| 34. skydiving st__t | <i>n.</i> a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense |
| 35. pr__k caller | <i>n.</i> a playful or mischievous trick, practical joke, or act of mischief performed with the intention of amusing or surprising others |
| 36. ob_____ry column | <i>n.</i> a notice of someone's death, often appearing in a newspaper or online; a published account of someone's life and achievements after their death |
| 37. reb_____us teenager | <i>adj.</i> characterized by a tendency to rebel or resist authority or conventions; inclined to do the opposite of what is expected or customary |

ANSWERS: 30. glee, 31. constrain, 32. ruse, 33. recluse, 34. stunt, 35. prank, 36. obituary, 37. rebellious

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| 38. hide behind a ps_____ym | <i>n.</i> a name someone, especially a writer, uses instead of their real name; a pen name |
| 39. in____t a personal opinion into a debate | <i>v.</i> to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube) |
| 40. live as a re_____e | <i>n.</i> a person who lives in solitude and isolation |

ANSWERS: 38. pseudonym, 39. inject, 40. recluse

Session 3: Fill in the Blanks

1. The man's _____ was published in the local newspaper.
n. a notice of someone's death, often appearing in a newspaper or online; a published account of someone's life and achievements after their death
2. The _____ plot of the movie left many viewers needing clarification and satisfaction.
adj. lacking coherence or connectivity; not flowing smoothly or logically; disconnected or fragmented
3. After years in the limelight, the actor decided to retreat from the public eye and become a _____.
n. a person who lives in solitude and isolation
4. The organization worked to bring together _____ groups in the community.
adj. very different or distinct from something else and is not connected or comparable in any way
5. 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
6. It is an _____ in mathematics that two parallel lines never intersect.
n. a statement or principle that is regarded as being self-evidently true and does not require proof or justification; a fundamental truth upon which other truths or theories are based
7. The political situation _____ the country's economic growth and foreign relations.
v. to restrict or limit someone or something's freedom or ability to do something

ANSWERS: 1. obituary, 2. disjointed, 3. recluse, 4. disparate, 5. rev, 6. axiom, 7. constrained

8. Mathematicians use _____ functions to map one set onto another.

adj. relating to a function in mathematics that maps every element in the codomain or range to at least one element in the domain

9. In mathematics, a _____ function has a one-to-one mapping between two sets.

adj. (of mathematics) describing a function that is both injective (every element in the range is mapped to by at most one element in the domain) and surjective (every element in the range is mapped to by at least one element in the domain)

10. The author published these writings under a _____.

n. a name someone, especially a writer, uses instead of their real name; a pen name

11. The scenery of the battlefield was _____ and grey.

adj. empty, simple, or apparent; devoid of any qualifications

12. Let's try to _____ a bit of enthusiasm into your performance.

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

13. The comedian's ____ had the audience laughing out loud.

n. a humorous play on words or use of words that sound similar but have different meanings, often for a comedic effect; a form of wordplay

14. The daredevil attempted a dangerous _____ by jumping off a tall building with a parachute.

n. a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense

ANSWERS: 8. surjective, 9. bijective, 10. pseudonym, 11. stark, 12. inject, 13. pun, 14. stunt

15. The country's economic policies have led to political _____.
n. the state of disorganization or untidiness in a situation or place; a mental state characterized by a lack of clear and orderly thought and behavior
16. The children's faces were filled with _____ as they ran around the playground.
n. a feeling of great happiness, joy, or pleasure, often accompanied by laughter or exuberance; a sense of delighted satisfaction from a positive result or accomplishment
17. Her _____ attitude often got her into trouble with the school authorities.
adj. characterized by a tendency to rebel or resist authority or conventions; inclined to do the opposite of what is expected or customary
18. He sent a _____ to let his family know he was safe.
n. a message sent by telegraph (= a method of long-distance transmission of messages by electrical or radio signals), typically consisting of a few words and sent at a reduced rate for urgent or brief communications
19. The thief used a clever _____ to access the bank's vault.
n. a trick or deception used to achieve a strategic or tactical advantage; a strategy or plan used to deceive or mislead someone
20. The group of teenagers played an innocent _____ on their teacher, but it backfired, and they got in trouble.
n. a playful or mischievous trick, practical joke, or act of mischief performed with the intention of amusing or surprising others

ANSWERS: 15. disarray, 16. glee, 17. rebellious, 18. telegram, 19. ruse, 20. prank