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Vocabulary Builder Reference from...

Natalya St. Clair: The unexpected math behind Van Gogh's "Starry Night" | TED Talk https://www.ted.com/talks/natalya_st_clair_the_unexp ected_math_behind_van_gogh_s_starry_night



Advanced Words Only

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Session 1: Word List

turbulent

adj. marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitationsynonym: chaotic, stormy, tumultuous

(1) turbulent waves, (2) turbulent age

The stock market has been **turbulent** lately, with prices fluctuating rapidly.

germ

 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.

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.

turbulence

 a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight synonym: choppiness, tumult, agitation

(1) financial **turbulence**, (2) emotional **turbulence**The ride on the rollercoaster was full of dips and turns, creating a feeling of **turbulence**.

depict

- v. to illustrate someone or something in a photograph synonym: illustrate, describe, express
- (1) **depict** a scene, (2) **depict** a feeling of isolation His son had accurately **depicted** the bloom.

sunrise

 the time in the morning when the sun first appears in the sky

synonym: daybreak, morning, dawn

(1) beautiful **sunrise**, (2) high-technology **sunrise** industries I got up early to watch the **sunrise** at the summit.

mutilate

v. to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably

synonym: maim, disfigure, deform

(1) **mutilate** a document, (2) **mutilate** a body It is cruel for anyone to **mutilate** an animal for any reason.

psychotic

adj. relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking

synonym: deranged, unstable, certifiable

(1) **psychotic** medication, (2) **psychotic** episode Her husband's death caused her to experience a **psychotic** break.

brushstroke

 n. the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal

synonym: stroke, line, mark

(1) artistic brushstroke, (2) a brushstroke of genius

The artist made a beautiful **brushstroke** on the canvas.

swirl

- v. to move in a circular or spiral pattern synonym: spin, whirl, turn
- (1) swirl the wine, (2) swirl up dirt and dust

The chef expertly **swirled** the sauce onto the plate.

eddy

 a circular current of water or air that flows in the opposite direction to the main current, causing a small whirlpool; a current of opinion, activity, or trend that goes against the main current

synonym: whirlpool, vortex, swirl

(1) eddy of water, (2) eddy of leaves

Unfortunately, the swirling **eddy** in the river made it difficult to swim.

impressionism

- a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or formal structure
- (1) **impressionism** movement, (2) **impressionism** style The famous French painters Monet and Renoir were considered pioneers of **impressionism**.

dappled

 adj. marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow

synonym: spotted, mottled, speckled

dappled light, (2) olive- dappled landscape
 The dappled sunlight filtered through the leaves of the trees.

twinkle

v. to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way

synonym: sparkle, shine, glitter

(1) **twinkle** like a star, (2) the **twinkle** of the stars His eyes **twinkled** with mischief.

luminous

 adj. emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

synonym: radiant, glowing, brilliant

(1) **luminous** glow, (2) **luminous** stars

The room was filled with **luminous** decorations that shone in the dark.

intensify

 to increase or make something increase in extent or strength

synonym: amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

primate

any mammal of the order Primates, which includes monkeys, apes, and humans

synonym: ape, monkey, lemur

(1) primate species, (2) primate sanctuary

Many scientists study **primate** behavior and intelligence.

flicker

- v. to shine unsteadily or intermittently, as if with a faint light synonym: flash, spark, glimmer
- (1) **flicker** every two seconds, (2) **flicker** out like a candle The fireflies **flickered** in the darkness.

radiate

v. to spread out or emit something, such as light or heat, in all directions

synonym: give off, scatter, beam

(1) radiate an aura, (2) radiate in all directions

Roads **radiate** from the famous building in the center of the city.

unsolved

adj. not yet understood, explained, or resolved; remaining a mystery or enigma

synonym: unresolved, mysterious, perplexing

(1) unsolved mystery, (2) unsolved crime

The case remains **unsolved** after years of investigation.

cascade

- n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or unitssynonym: waterfall, watercourse, step
- (1) **cascade** connection, (2) transistor **cascade**The **cascade** of waterfalls in the national park was a breathtaking sight.

Jovian

adj. relating to Jupiter or its characteristicssynonym: Jupiter, giant planet

(1) Jovian satellites, (2) Jovian planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

interstellar

adj. relating to or located in the space between stars synonym: galactic, cosmic, intergalactic

(1) **interstellar** communication, (2) **interstellar** space The **interstellar** medium comprises gas, dust, and cosmic rays that fill the space between stars.

motto

 a phrase or slogan that expresses a guiding principle or goal

synonym: slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**The company's **motto** is "Innovation and Service," which is reflected in its products and customer support.

agitation

a state of anxiety, excitement, or disturbance that is
 often associated with restlessness, agitation, or
 nervousness; the act of stirring or moving something in a
 rapid or erratic manner

synonym: excitement, restlessness, turmoil

(1) agitation levels, (2) political agitation

The crowd's agitation grew as the politician failed to answer

their questions.

munch

v. to chew or eat something noisily, often with the sound of crunching or crunching

synonym: chew, nibble, gnaw

(1) **munch** on an apple, (2) **munch** away on crisps I love to **munch** on popcorn while I watch a movie.

rousing

 adj. exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest

synonym: exciting, stirring, invigorating

(1) rousing music, (2) rousing business

The **rousing** speech by the coach pumped up the team before the big game.

Session 2: Spelling

1.	swl up dirt and dust	<i>v</i> .	to move in a circular or spiral pattern
2.	Jon satellites	adj.	relating to Jupiter or its characteristics
3.	Jon planet	adj.	relating to Jupiter or its characteristics
4.	pre sanctuary	n.	any mammal of the order Primates, which includes monkeys, apes, and humans
5.	a bruke of genius	n.	the mark or stroke made by a painter's brush on a canvas or surface; a single movement or action toward a larger project or goal
6.	infy a good relationship	<i>v</i> .	to increase or make something increase in extent or strength
7.	pre species	n.	any mammal of the order Primates, which includes monkeys, apes, and humans
8.	luus glow	adj.	emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
9.	twe like a star	<i>v</i> .	to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way
10.	uned mystery	adj.	not yet understood, explained, or resolved; remaining a mystery or enigma
11.	theoretical phst	n.	a scientist who specializes in the field of physics

ANSWERS: 1. swirl, 2. Jovian, 3. Jovian, 4. primate, 5. brushstroke, 6. intensify, 7. primate, 8. luminous, 9. twinkle, 10. unsolved, 11. physicist

ANSWERS: 12. dappled, 13. turbulence, 14. psychotic, 15. munch, 16. mutilate, 17. dappled, 18. eddy

19.	mute a body	ν.	to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably
20.	rae in all directions	<i>v</i> .	to spread out or emit something, such as light or heat, in all directions
21.	intlar space	adj.	relating to or located in the space between stars
22.	infy diplomatic efforts	<i>v</i> .	to increase or make something increase in extent or strength
23.	psic episode	adj.	relating to or characterized by a loss of touch with reality; exhibiting or suffering from a severe mental disorder characterized by delusions, hallucinations, or disordered thinking
24.	the moo for safe traffic	n.	a phrase or slogan that expresses a guiding principle or goal
25.	tunt waves	adj.	marked by a lot of sudden changes, confusion, or uncertainty; characterized by intense activity or agitation
26.	luus stars	adj.	emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
27.	the twe of the stars	<i>v</i> .	to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way
28.	rog business	adj.	exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest

ANSWERS: 19. mutilate, 20. radiate, 21. interstellar, 22. intensify, 23. psychotic, 24. motto, 25. turbulent, 26. luminous, 27. twinkle, 28. rousing

ANSWERS: 29. flicker, 30. germ, 31. sunrise, 32. agitation, 33. munch, 34. turbulent, 35. turbulence, 36. motto, 37. cascade, 38. interstellar

Vocab-Builder Ref from "Natalya St. Clair: The unexpected math behind Van Gogh's "Starry Night" | TED Talk" (27 words)

ANSWERS: 39. flicker, 40. eddy, 41. rousing, 42. depict, 43. germ, 44. impressionism, 45. sunrise, 46. impressionism, 47. brushstroke

a scientist who specializes in the field of 48. talented ph st n. physics 49. sw I the wine to move in a circular or spiral pattern ν. 50. de___t a scene to illustrate someone or something in a ν. photograph 51. ca___e connection a small waterfall or series of small n. waterfalls; a succession of stages or operations or processes or units 52. ag____on levels a state of anxiety, excitement, or n. disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner to spread out or emit something, such 53. ra e an aura ν. as light or heat, in all directions 54. un ed crime adj. not yet understood, explained, or resolved; remaining a mystery or enigma

ANSWERS: 48. physicist, 49. swirl, 50. depict, 51. cascade, 52. agitation, 53. radiate, 54. unsolved

Session 3: Fill in the Blanks

1.	The room was filled with decorations that shone in the dark.					
adj	 emitting or reflecting light, especially in the dark; shining or glowing brightly; fu of light or enlightenment 					
2.	Rebels have pledged to the armed struggle against the dictatorship.					
<i>v</i> .	to increase or make something increase in extent or strength					
3.	I love to on popcorn while I watch a movie.					
<i>v</i> .	to chew or eat something noisily, often with the sound of crunching or crunching					
4.	His eyes with mischief.					
<i>v</i> .	to shine with a flickering or sparkling light; (noun) the act of shining in a bright and cheerful way					
5.	The moon Europa is believed to have an ocean beneath its icy surface.					
adj	i. relating to Jupiter or its characteristics					
6.	His son had accurately the bloom.					
v.	to illustrate someone or something in a photograph					
7.	The speech by the coach pumped up the team before the big game.					
adj	exciting, stimulating, or inspiring; causing a strong emotional or physical response; arousing enthusiasm or interest					
8.	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					
	SWERS: 1. luminous, 2. intensify, 3. munch, 4. twinkled, 5. Jovian, 6. depicted, 7 ising, 8. germ					

17.	The famous French painters Monet and Renoir were considered pioneers of .
n.	a style of art and literature that seeks to capture the fleeting momentary sensations and impressions of perception rather than objective reality or forma structure
18.	It is cruel for anyone to an animal for any reason.
<i>v</i> .	to cause severe damage, disfigurement, or injury, usually to a person or an animal; to destroy, alter, or damage something severely or irreparably
19.	The ride on the rollercoaster was full of dips and turns, creating a feeling of
n.	a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
20.	The company's is "Innovation and Service," which is reflected in its products and customer support.
n.	a phrase or slogan that expresses a guiding principle or goal
21.	Einstein was an outstanding and famous of the 20th century.
n.	a scientist who specializes in the field of physics
22.	The sunlight filtered through the leaves of the trees.
adj	marked with spots or patches of different colors or shades; having a mottled or speckled appearance; characterized by a play of light and shadow
23.	The crowd's grew as the politician failed to answer their questions.
n.	a state of anxiety, excitement, or disturbance that is often associated with restlessness, agitation, or nervousness; the act of stirring or moving something in a rapid or erratic manner
	SWERS: 17. impressionism, 18. mutilate, 19. turbulence, 20. motto, 21. physicist dappled, 23. agitation

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ANSWERS: 24. flickered, 25. interstellar, 26. radiate, 27. swirled