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Vocabulary Builder Reference from...

Marjee Chmiel and Trevor Owens: Is there a center of the universe? | TED Talk https://www.ted.com/talks/marjee_chmiel_and_trevor _owens_is_there_a_center_of_the_universe



Advanced Words Only

IMPORTANT

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Session 1: Word List

crystalline

 adj. resembling crystal in clarity, transparency, or brilliance;
 having a highly ordered and symmetrical molecular structure

synonym: crystallized, clear, transparent

(1) **crystalline** structure, (2) **crystalline** water

The geologist found a beautiful specimen of a **crystalline** mineral.

Jovian

adj. relating to Jupiter or its characteristics synonym: Jupiter, giant planet

(1) Jovian satellites, (2) Jovian planet

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

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

gravitation

 the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass synonym: attraction, pull, gravity

(1) terrestrial **gravitation**, (2) universal **gravitation**The force of **gravitation** keeps the planets in our solar system in orbit around the sun.

friar

n. a member of a religious community who lives a contemplative or ascetic lifestyle, often associated with the Roman Catholic or Anglican Church; a medieval European monk who traveled and preached in rural areas

synonym: monk, brother, religious

(1) friar's balsam, (2) Dominican friar

The **friar's** duties extended beyond the church and into the local community.

whirlpool

 a rapidly rotating mass of water or air, especially one in a river or sea, causing a suction or vortex

synonym: maelstrom, vortex, eddy

(1) whirlpool effect, (2) whirlpool bathtub

The river had several dangerous **whirlpools** that were difficult to navigate.

vortex

n. a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind

synonym: whirlpool, whirlwind, maelstrom

(1) vortex formation, (2) blow in a vortex

The **vortex** of the tornado was massive and destructive.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur astronomer, (2) solar astronomer

This question has fascinated solar **astronomers** for decades.

smudge

 a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification

or ritual purposes

synonym: blemish, mark, stain

(1) ink smudge, (2) lipstick smudge

She accidentally left a **smudge** on the newly painted wall.

nebula

 a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source

synonym: cloud, mist, stardust

(1) a spiral **nebula**, (2) emission **nebula**

The galactic **nebula** was a beautiful sight through the telescope, with its vibrant colors and swirling clouds.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

propel

v. to move, drive or push something forward or in a particular direction, often with a lot of force

synonym: drive, push, move

(1) propel growth, (2) propel the ship

An increase in employment helps **propel** economic growth.

perplexing

adj. causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying

synonym: puzzling, confusing, baffling

(1) perplexing situation, (2) perplexing problem

The novel's ambiguous ending left readers with a **perplexing** message.

Session 2: Spelling

solar ast____er

1.

2. lipstick sm	e	n	a blurry or dirty mark or stain left by
z. npotion om	0	70.	rubbing or smearing something; also, a
			bundle of material, such as sage or
			incense, that is burned to produce

n.

- 3. pr___l the ship v. to move, drive or push something forward or in a particular direction, often with a lot of force
 - a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind

a physicist who studies astronomy

smoke for purification or ritual purposes

- n. a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
- adj. resembling crystal in clarity,transparency, or brilliance; having ahighly ordered and symmetricalmolecular structure
- a rapidly rotating mass of water or air, especially one in a river or sea, causing a suction or vortex
- n. a member of a religious community who lives a contemplative or ascetic lifestyle, often associated with the Roman Catholic or Anglican Church; a medieval European monk who traveled and preached in rural areas

0 1.1 1.

4. vo___x formation

5. ink sm___e

6. cry____ne water

7. wh____ol effect

8. fr__r's balsam

ANSWERS: 1. astronomer, 2. smudge, 3. propel, 4. vortex, 5. smudge, 6. crystalline, 7. whirlpool, 8. friar

- a rapidly rotating mass of water or air, 9. wh ol bathtub n. especially one in a river or sea, causing a suction or vortex a mass of whirling air, water, dust, or 10. blow in a vo___x n. smoke, especially a whirlpool or whirlwind 11. cry____ne structure adj. resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure 12. Ne____an physics adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation 13. pr___l growth to move, drive or push something ν. forward or in a particular direction, often with a lot of force a cloud of gas and dust in space, visible 14. a spiral ne___a in the night sky, typically as a diffuse light source 15. Ne____an mechanics adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation 16. Dominican fr_r a member of a religious community who n. lives a contemplative or ascetic lifestyle, often associated with the Roman Catholic or Anglican Church; a medieval European monk who traveled and
 - 17. Jo___n satellites
 18. Jo n planet
 adj. relating to Jupiter or its characteristics
 adj. relating to Jupiter or its characteristics

preached in rural areas

ANSWERS: 9. whirlpool, 10. vortex, 11. crystalline, 12. Newtonian, 13. propel, 14. nebula, 15. Newtonian, 16. friar, 17. Jovian, 18. Jovian

19. perng situation	adj.	causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying
20. spte on the outcome	<i>v</i> .	to form a theory or conjecture or guess about a subject without solid evidence
21. amateur aster	n.	a physicist who studies astronomy
22. perng problem	adj.	causing confusion or uncertainty; difficult to understand or explain; puzzling or mystifying
23. spte about the reason	ν.	to form a theory or conjecture or guess about a subject without solid evidence
24. universal graon	n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
25. terrestrial graon	n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
26. emission nea	n.	a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source

ANSWERS: 19. perplexing, 20. speculate, 21. astronomer, 22. perplexing, 23. speculate, 24. gravitation, 25. gravitation, 26. nebula

Session 3: Fill in the Blanks

	The motion of planets can be described using mechanics.
adj	relating to Sir Isaac Newton or his laws of motion and universal gravitation
2.	The of the tornado was massive and destructive.
n.	a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwing
3.	The duties extended beyond the church and into the local community.
n.	a member of a religious community who lives a contemplative or ascetic lifestyle, often associated with the Roman Catholic or Anglican Church; a medieval European monk who traveled and preached in rural areas
4.	He that this investment would lead to success.
v.	to form a theory or conjecture or guess about a subject without solid evidence
5.	The force of keeps the planets in our solar system in orbit around the sun.
n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
6.	The geologist found a beautiful specimen of a mineral.
adj	resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
7.	An increase in employment helps economic growth.
<i>v</i> .	to move, drive or push something forward or in a particular direction, often with a lot of force
	SWERS: 1. Newtonian, 2. vortex, 3. friar's, 4. speculated, 5. gravitation, 6. stalline, 7. propel