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Vocabulary Builder Reference from...

Wanda Diaz Merced: How a blind astronomer found a way to hear the stars | TED Talk https://www.ted.com/talks/wanda_diaz_merced_how_a_blind_astronomer_found_a_way_to_hear_the_star s



Advanced Words Only

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Session 1: Word List

supernova

 a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

synonym: explosion, detonation, blast

(1) extragalactic **supernova**, (2) **supernova** remnant The **supernova** explosion created a bright new star in the night sky.

outshine

v. to be more brilliant, striking, or impressive than; to outdo or excel

synonym: surpass, excel, outdo

(1) **outshine** his teacher, (2) **outshine** expectations
The new singer **outshined** all the others on stage with her powerful voice.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution During the unloading, the container box **emits** a clicking sound.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to rot, (2) rot with age

Please refrigerate the meat, or it will **rot**.

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.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark The phone rang at the most **opportune** time.

scrutinize

- v. to examine carefully and critically; to inspect closely synonym: examine, inspect, audit
- (1) **scrutinize** her belongings, (2) **scrutinize** a suspect The detective **scrutinized** the evidence for any clues.

astrophysics

- n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
- (1) **astrophysics** research, (2) neutrino **astrophysics**He was studying **astrophysics** in an attempt to understand the origins of the universe.

titanic

 adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

synonym: colossal, massive, immense

(1) titanic battle, (2) titanic compound

The **titanic** ship sank on its maiden voyage.

celestial

adj. relating to the sky or the heavens; of or like the sky or the heavens

synonym: heavenly, divine, ethereal

(1) celestial bliss, (2) celestial navigation

The **celestial** bodies in the night sky were beautiful to behold.

beep

v. to make a short, high-pitched sound, typically as a signal or warning

synonym: bleep, honk, buzz

(1) **beep** out a warning, (2) **beep** the horn

The timer **beeped**, reminding me that the cake was ready to come out of the oven.

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.

whistle

to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

synonym: sound, honk, tweet

(1) whistle a tune, (2) whistle for help

The employee decided to **whistle-blow** on the company's illegal activities.

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.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result *synonym*: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

outflow

 the leakage of fluid from a container; a natural flow of groundwater

synonym: discharge, outpouring, gush

(1) outflow fluid, (2) outflow of capital

After the valves were closed, the **outflow** halted.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity The old building **exploded** in a fiery inferno.

adjoin

v. to be next to or border upon; to be adjacent or connected to something

synonym: adjoin, neighbor, border

(1) adjoin two rooms, (2) adjoin the garden

The bookstore **adjoins** the coffee shop, making it a perfect spot to relax and read.

improvisation

 the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation** He created a beautiful piece of music using only **improvisation**.

innovate

- v. to introduce new methods, ideas, or products synonym: bring in, introduce, found
- (1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

excommunicate

 to officially exclude someone from membership in a church or religious community; to expel or banish someone from a group or society

synonym: expel, ostracize, banish

- (1) **excommunicate** the priest from the church,
- (2) excommunicate a sinner

The church leaders decided to **excommunicate** the member who had committed a serious offense.

empower

- v. to give someone the power or authority to do something synonym: authorize, endow, entitle
- (1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

flourish

- v. to grow or develop vigorously or successfully synonym: boom, advance, succeed
- flourish economically, (2) flourish worldwide
 The Ottoman Empire flourished for over five centuries.

prosper

v. to be successful or thriving, especially financially; to grow and develop well; to flourish

synonym: thrive, flourish, succeed

(1) **prosper** in the long run, (2) **prosper** as a trading hub With careful planning and hard work, she was able to **prosper** in her new business venture.

astronomical

 adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

synonym: huge, vast, enormous

(1) astronomical observation, (2) astronomical numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

observatory

- *n.* a building designed and equipped to observe the planets, the stars, the weather, etc.
- (1) space **observatory**, (2) a meteorological **observatory** That astronomical **observatory** stands at the top of the mountain.

eject

v. to force someone to put out or leave a particular place or position

synonym: discharge, expel, emit

(1) **eject** a player from a game, (2) **eject** huge amounts of pollutant

Our immune system can **eject** disease germs from the body.

coronal

- adj. of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning monarch)
- (1) solar **coronal** plasma, (2) the **coronal** part of a natural tooth

Several satellites failed due to a solar wind caused by **coronal** mass ejections.

sever

v. to break or separate something by cutting, especially suddenly and forcibly

synonym: cut apart, separate, detach

(1) **sever** a rope, (2) **sever** a positive relationship He **severed** a branch from a tree quickly.

n.

Session 2: Spelling

7. pr___r in the long run

hu g sound

ex e in anger

8.

9.

ou____w fluid

1.

			natural flow of groundwater
2.	et air pollution	v.	to give off or send out something such as light, heat, sound, gas, etc.
3.	scrze a suspect	v.	to examine carefully and critically; to inspect closely
4.	extragalactic suva	n.	a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant
5.	neutrino astics	n.	the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
6.	opne occasion	adj.	suitable or happening at a time that is suitable or convenient for a particular

v. to be successful or thriving, especially financially; to grow and develop well; to flourish

purpose

the leakage of fluid from a container; a

- adj. producing a continuous, low, vibrating sound like that of the bee
- to burst or break open violently and noisily; to cause something to burst or break open

ANSWERS: 1. outflow, 2. emit, 3. scrutinize, 4. supernova, 5. astrophysics, 6. opportune, 7. prosper, 8. humming, 9. explode

ANSWERS: 10. coronal, 11. eject, 12. improvisation, 13. opportune, 14. flourish, 15. astronomer, 16. sever, 17. innovate, 18. titanic, 19. celestial, 20. adjoin

21. fl sh economically to grow or develop vigorously or ν. successfully 22. scr___ze her belongings to examine carefully and critically; to ν. inspect closely 23. ou___ne expectations to be more brilliant, striking, or ν. impressive than; to outdo or excel 24. ex___e the crowd to make someone feel suddenly ν. enthusiastic or eager 25. begin to r_t to decay, or cause something to decay, naturally and gradually to be successful or thriving, especially 26. pr ras a trading hub financially; to grow and develop well; to flourish to decay, or cause something to decay, 27. r t with age ν. naturally and gradually 28. ou w of capital the leakage of fluid from a container; a n. natural flow of groundwater 29. exc____ate a sinner to officially exclude someone from ν. membership in a church or religious community; to expel or banish someone from a group or society 30. ast____cal numbers adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude 31. ex___e in popularity to burst or break open violently and noisily; to cause something to burst or break open 32. wh___e for help to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

ANSWERS: 21. flourish, 22. scrutinize, 23. outshine, 24. excite, 25. rot, 26. prosper, 27. rot, 28. outflow, 29. excommunicate, 30. astronomical, 31. explode, 32. whistle

- n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
- a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

ANSWERS: 33. sever, 34. whistle, 35. observatory, 36. celestial, 37. empower, 38. astronomical, 39. adjoin, 40. eject, 41. innovate, 42. determinant, 43. supernova

43. su____va remnant

ANSWERS: 44. excommunicate, 45. observatory, 46. outshine, 47. emit, 48. beep, 49. empower, 50. astronomer, 51. determinant, 52. improvisation, 53. astrophysics, 54. titanic

light, strong grey, lustrous,

corrosion-resistant metallic element)

- 55. hu____g bird
- 56. solar co____I plasma

- 57. ex___e rebellion
- 58. b_p out a warning

- adj. producing a continuous, low, vibrating sound like that of the bee
- adj. of or relating to the corona (= the outermost region of the sun's atmosphere); of or relating to or similar to the crown (= traditional head adornment, or hat worn by the reigning monarch)
- v. to make someone feel suddenly enthusiastic or eager
- v. to make a short, high-pitched sound, typically as a signal or warning

ANSWERS: 55. humming, 56. coronal, 57. excite, 58. beep

Session 3: Fill in the Blanks

1.	Companies developing self-driving cars consistently the emerging technologies.				
<i>v</i> .	to introduce new methods, ideas, or products				
2.	He was studying in an attempt to understand the origins of the universe.				
n.	the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe				
3.	After the valves were closed, the halted.				
n.	the leakage of fluid from a container; a natural flow of groundwater				
4.	The ship sank on its maiden voyage.				
adj	of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)				
5.	That astronomical stands at the top of the mountain.				
n.	a building designed and equipped to observe the planets, the stars, the weather, etc.				
6.	He a branch from a tree quickly.				
ν.	to break or separate something by cutting, especially suddenly and forcibly				
7.	During the unloading, the container box a clicking sound.				
v.	to give off or send out something such as light, heat, sound, gas, etc.				
ANSWERS: 1. innovate, 2. astrophysics, 3. outflow, 4. titanic, 5. observatory, 6. severed, 7. emits					

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