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Vocabulary Builder Reference from...

Erika Hamden: What it takes to launch a telescope | TED Talk https://www.ted.com/talks/erika_hamden_what_it_tak es_to_launch_a_telescope



Advanced Words Only

IMPORTANT

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Session 1: Word List

astronomer	 <i>n.</i> a physicist who studies astronomy <i>synonym</i>: stargazer, cosmologist, astrophysicist (1) amateur astronomer, (2) solar astronomer This question has fascinated solar astronomers for decades.
intergalactic	<i>adj.</i> existing or occurring between different galaxies (= an independent group of stars)<i>synonym</i>: extragalactic, cosmic, interstellar
	(1) intergalactic travel, (2) intergalactic matter
	The intergalactic spaceship traveled to distant planets.
redshift	 <i>n</i>. a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe <i>synonym</i>: doppler shift (1) redshift effect, (2) Doppler redshift
	The redshift in the galaxy's light suggested it was moving
	away from us.

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.
propulsion	 n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means synonym: propelling, driving, actuation
	(1) propulsion technology, (2) nuclear propulsion
	The spacecraft's propulsion system helped it travel through
	space.
stratosphere	 n. the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
	synonym: upper atmosphere, ozone layer
	(1) stratosphere layer, (2) stratosphere ozone
	The ozone layer, which protects us from harmful UV
	radiation, is in the stratosphere .
remake	 v. to create a new version of a work of art, such as a film, song, or play, using the same or similar material as the original; to adapt or update something for a new audience or purpose; (noun) a new version or adaptation of a previously existing movie, song, TV show, or other creative work synonym: revamp, redo, reproduce
	(1) video game remake , (2) remake song
	The director plans to remake the classic movie with a modern twist.
calibration	 n. the process of ensuring that an instrument, machine, or process is accurate and functioning correctly, often involving comparison to a standard or reference synonym: adjustment, tuning, standardization

	 (1) calibration error, (2) calibration settings The calibration of the equipment was vital to ensure accurate measurements. 		
falcon	 n. a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight synonym: hawk, eagle, kestrel 		
	(1) falcon feathers, (2) peregrine falcon		
	The falcon's keen eyesight makes it an excellent hunter.		
spectrograph	<i>n.</i> an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies		
	synonym: spectrometer, spectroscope, instrument		
	(1) spectrograph analysis, (2) acoustic spectrograph		
	The spectrograph data showed that the element was composed of multiple spectral lines.		
dampen	 v. to make something wet or moist; to reduce the intensity or impact of something, such as a feeling, sound, or movement 		
	synonym: drench, moisten, saturate		
	(1) dampen the sound, (2) dampen the enthusiasm		
	The rain helped dampen the flames of the campfire.		
inflated	 adj. swollen or blown up, especially with air or gas; excessively or unreasonably high synonym: enlarged, swollen, distended 		
	(1) inflated prices, (2) an inflated balloon		
	The athlete's ego became inflated by their success.		
spherical	<i>adj.</i> having the shape of a sphere; round, spherical, or ball-shaped in appearance		
	synonym: round, orbicular, spherical		
	(1) spherical shape, (2) spherical object		

The Earth is a nearly **spherical** planet.

teardrop	anything shaped like a falling drop as a pendant gem on an earring; a single tear that falls from the eye onym: tear				
	(1) teardrop balloon, (2) teardrop earring				
	Teardrop rubies and diamonds were set in white gold.				
heartbreak	<i>n.</i> a feeling of great sadness or disappointment <i>synonym</i> : grief, sorrow, bitterness				
	(1) ease her heartbreak, (2) go through heartbreakThey had experienced the heartbreak of losing two children due to premature births.				

Session 2: Spelling

1.	dan the sound	v.	to make something wet or moist; to reduce the intensity or impact of something, such as a feeling, sound, or movement
2.	fan feathers	n.	a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight
3.	ree song	v.	to create a new version of a work of art, such as a film, song, or play, using the same or similar material as the original; to adapt or update something for a new audience or purpose; (noun) a new version or adaptation of a previously existing movie, song, TV show, or other creative work
4.	dan the enthusiasm	v.	to make something wet or moist; to reduce the intensity or impact of something, such as a feeling, sound, or movement
5.	speaph analysis	n.	an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
6.	strere layer	n.	the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer

ANSWERS: 1. dampen, 2. falcon, 3. remake, 4. dampen, 5. spectrograph, 6. stratosphere

7.	exe in anger	v.	to burst or break open violently and noisily; to cause something to burst or break open
8.	acoustic speaph	n.	an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
9.	video game ree	v.	to create a new version of a work of art, such as a film, song, or play, using the same or similar material as the original; to adapt or update something for a new audience or purpose; (noun) a new version or adaptation of a previously existing movie, song, TV show, or other creative work
10.	exe in popularity	v.	to burst or break open violently and noisily; to cause something to burst or break open
11.	go through heaak	n.	a feeling of great sadness or disappointment
12.	inttic matter	adj.	existing or occurring between different galaxies (= an independent group of stars)
13.	inttic travel	adj.	existing or occurring between different galaxies (= an independent group of stars)
14.	teop earring	n.	anything shaped like a falling drop as a pendant gem on an earring; a single tear that falls from the eye

ANSWERS: 7. explode, 8. spectrograph, 9. remake, 10. explode, 11. heartbreak, 12. intergalactic, 13. intergalactic, 14. teardrop

15. spal shape	adj.	having the shape of a sphere; round, spherical, or ball-shaped in appearance
16. an ined balloon	adj.	swollen or blown up, especially with air or gas; excessively or unreasonably high
17. Doppler reft	n.	a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe
18. proon technology	n.	the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
19. solar aster	n.	a physicist who studies astronomy
20. ease her heaak	n.	a feeling of great sadness or disappointment
21. amateur aster	n.	a physicist who studies astronomy
22. strere ozone	n.	the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
23. nuclear proon	n.	the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

ANSWERS: 15. spherical, 16. inflated, 17. redshift, 18. propulsion, 19. astronomer, 20. heartbreak, 21. astronomer, 22. stratosphere, 23. propulsion

24. spal object	adj.	having the shape of a sphere; round, spherical, or ball-shaped in appearance
25. peregrine fan	n.	a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight
26. calon error	n.	the process of ensuring that an instrument, machine, or process is accurate and functioning correctly, often involving comparison to a standard or reference
27. ined prices	adj.	swollen or blown up, especially with air or gas; excessively or unreasonably high
28. calon settings	n.	the process of ensuring that an instrument, machine, or process is accurate and functioning correctly, often involving comparison to a standard or reference
29. teop balloon	n.	anything shaped like a falling drop as a pendant gem on an earring; a single tear that falls from the eye
30. reft effect	n.	a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe

ANSWERS: 24. spherical, 25. falcon, 26. calibration, 27. inflated, 28. calibration, 29. teardrop, 30. redshift

ANSWERS:

Session 3: Fill in the Blanks

- 1. This question has fascinated solar ______ for decades.
- *n.* a physicist who studies astronomy
- 2. The old building _____ in a fiery inferno.
- v. to burst or break open violently and noisily; to cause something to burst or break open
- 3. The director plans to _____ the classic movie with a modern twist.
- v. to create a new version of a work of art, such as a film, song, or play, using the same or similar material as the original; to adapt or update something for a new audience or purpose; (noun) a new version or adaptation of a previously existing movie, song, TV show, or other creative work
- 4. The rain helped _____ the flames of the campfire.
- *v.* to make something wet or moist; to reduce the intensity or impact of something, such as a feeling, sound, or movement
- 5. The ozone layer, which protects us from harmful UV radiation, is in the
- *n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
- 6. The ______ in the galaxy's light suggested it was moving away from us.
- a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe

ANSWERS: 1. astronomers, 2. exploded, 3. remake, 4. dampen, 5. stratosphere, 6. redshift

- 7. The ______ data showed that the element was composed of multiple spectral lines.
- *n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
- 8. The athlete's ego became _____ by their success.
- *adj.* swollen or blown up, especially with air or gas; excessively or unreasonably high
- 9. The spacecraft's ______ system helped it travel through space.
- *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
- 10. The ______ keen eyesight makes it an excellent hunter.
- *n.* a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight
- 11. The ______ spaceship traveled to distant planets.
- *adj.* existing or occurring between different galaxies (= an independent group of stars)
- 12. The Earth is a nearly _____ planet.
 - adj. having the shape of a sphere; round, spherical, or ball-shaped in appearance
- 13. _____ rubies and diamonds were set in white gold.
- *n*. anything shaped like a falling drop as a pendant gem on an earring; a single tear that falls from the eye
- 14. They had experienced the ______ of losing two children due to premature births.
- *n.* a feeling of great sadness or disappointment

ANSWERS: 7. spectrograph, 8. inflated, 9. propulsion, 10. falcon's, 11. intergalactic, 12. spherical, 13. Teardrop, 14. heartbreak

- 15. The ______ of the equipment was vital to ensure accurate measurements.
- *n.* the process of ensuring that an instrument, machine, or process is accurate and functioning correctly, often involving comparison to a standard or reference

ANSWERS: 15. calibration