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Vocabulary Builder Reference from...

Fabio Pacucci: Yes, scientists are actually building an elevator to space | TED Talk https://www.ted.com/talks/fabio_pacucci_yes_scientis ts_are_actually_building_an_elevator_to_space



Advanced Words Only

IMPORTANT

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Session 1: Word List

catastrophe	<i>n.</i> a sudden event that causes extreme ruin and misfortune <i>synonym</i> : disaster, calamity, cataclysm			
	(1) catastrophe risk management, (2) avoid climate catastrophe			
	The lack of funds has resulted in a catastrophe for our university system.			
astronaut	 <i>n</i>. a person trained by a space agency to travel outside the Earth's atmosphere <i>synonym</i>: spaceman, cosmonaut 			
	(1) astronaut mission, (2) astronaut in training			
	The shuttle astronaut trained for months before embarking on the space mission.			
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.			
carousel	<i>n.</i> a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or			

	<pre>vehicles for people to ride; a slideshow or display of images or information that cycles or repeats synonym: merry-go-round, roundabout, whirligig</pre>
	(1) baggage claim carousel, (2) children's carousel
	The carousel operator made sure each child was safely seated before starting the ride
aloft	adv. in the air; at a high place synonym: elevated, high, soaring
	(1) go aloft , (2) carried aloft by police
	The hot air balloon rose aloft into the sky, giving the
	passengers a breathtaking countryside view.
centrifugal	 adj. tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea synonym: outward, diverging, radiating
	(1) centrifugal acceleration, (2) centrifugal casting
	The centrifugal force of the spinning ride caused my hair to fly in all directions.
inert	<i>adj.</i> lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive <i>synonym</i> : motionless, inactive, dormant
	(1) inert gases, (2) inert ingredients
	The rock was completely inert and didn't react when we tried to break it open.
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.
tether	 v. to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving

	 too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog synonym: tie, fasten, secure (1) tether a horse, (2) tether strap The hiker tethered their dog to a tree while they camped for the night. 				
counterweight	 a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage synonym: balance, counterbalance, counterpoise 				
	(1) counterweight system, (2) counterweight balance				
	The counterweight on the suspension bridge helped keep it stable during windy conditions.				
envision	 v. to imagine or expect what a situation will be like in the future synonym: anticipate, foresee, picture 				
	(1) envision the future, (2) envision the project's success We cannot envision her as President.				
gravitational	 adj. relating to or caused by gravity (= the force that attracts objects towards one another) 				
	synonym: weighty, heavy, earthbound				
	(1) gravitational energy, (2) gravitational waves				
	The gravitational force of the black hole was so strong that nothing, not even light, could escape.				
geostationary	 n. describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator synonym: fixed, stationary, orbiting 				
	(1) geostationary orbit, (2) geostationary position				
	The geostationary satellite remained in a fixed position in the sky.				

revolve	v. to rotate around a central pointsynonym: rotate, spin, orbit
	(1) revolve at high speed, (2) revolve around a central axis
	The Earth revolves around the Sun in an elliptical orbit.
motionless	<i>adj.</i> without movement or motion; completely still <i>synonym</i> : still, immobile, static
	(1) motionless figure, (2) motionless body
	The wounded soldier lay motionless on the battlefield
	waiting for medical attention.
asteroid	 n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter synonym: minor planet, planetoid, rocky planetesimal
	(1) asteroid mining, (2) asteroid explorer
	Scientists are studying the composition and origins of the
	asteroid belt to understand the early solar system better.
equator	 n. an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
	(1) south of the equator , (2) above the equator
	Ecuador is on the equator .
maneuver	 n. a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage synonym: gimmick, trick, action
	(1) political maneuvers, (2) made a great maneuver
	In this class, we learn the basic maneuver of the plane.
electrify	 v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
	synonym: wire, amaze, astonish
	 (1) electrify the audience, (2) electrify a manufacturing process

The product developed through years of research continues to **electrify** the market. to raise something from a lower to a higher position: to elevate v. give a promotion to or assign to a higher position synonym: lift, heighten, promote (1) elevate educational standards, (2) elevate a close relationship Eating food in a hurry **elevates** blood glucose levels. *adj.* extremely harmful; causing physical or financial catastrophic destruction synonym: fatal, disastrous, destructive (1) victim of catastrophic injuries, (2) catastrophic climate change The extinction rate of aquatic animals was **catastrophic**. a tube-shaped structure that is composed of very small nanotube n. particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science (1) **nanotube** technology, (2) metallic **nanotube** Carbon nanotubes are used in various fields of science and technology due to their unique properties. a confusing and difficult problem or question conundrum n. synonym: puzzle, riddle, enigma (1) **conundrum** of choice, (2) pose a **conundrum** The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

Session 2: Spelling

1.	granal waves	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
2.	int ingredients	adj.	lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
3.	ter strap	v.	to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
4.	cought system	n.	a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage
5.	ree around a central axis	v.	to rotate around a central point
6.	elfy the audience	v.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
7.	cenal acceleration	adj.	tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea

ANSWERS: 1. gravitational, 2. inert, 3. tether, 4. counterweight, 5. revolve, 6. electrify, 7. centrifugal

8. carried alt by police	adv. in the air; at a high place
9. above the eqr	 an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
10. r_t with age	 v. to decay, or cause something to decay, naturally and gradually
11. ter a horse	 v. to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
12. elfy a manufacturing process	s v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
13. motss body	adj. without movement or motion; completely still
14. enon the project's success	 v. to imagine or expect what a situation will be like in the future
15. ree at high speed	v. to rotate around a central point
16. int gases	<i>adj.</i> lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
17. cought balance	 a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage

ANSWERS: 8. aloft, 9. equator, 10. rot, 11. tether, 12. electrify, 13. motionless, 14. envision, 15. revolve, 16. inert, 17. counterweight

18. south of the eqr	n.	an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
19. asid explorer	n.	a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
20. nabe technology	n.	a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
21. 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
22. granal energy	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
23. children's cael	n.	a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats
24. cathe risk management	n.	a sudden event that causes extreme ruin and misfortune
25. asut in training	n.	a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 18. equator, 19. asteroid, 20. nanotube, 21. falcon, 22. gravitational, 23. carousel, 24. catastrophe, 25. astronaut

26.	metallic nabe	n.	a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
27.	made a great maer	n.	a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
28.	ele a close relationship	v.	to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
29.	ele educational standards	v.	to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
30.	geoary orbit	n.	describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator
31.	motss figure	adj.	without movement or motion; completely still
32.	avoid climate cathe	n.	a sudden event that causes extreme ruin and misfortune
33.	cenal casting	adj.	tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea
34.	victim of cathic injuries	adj.	extremely harmful; causing physical or financial destruction

ANSWERS: 26. nanotube, 27. maneuver, 28. elevate, 29. elevate, 30. geostationary, 31. motionless, 32. catastrophe, 33. centrifugal, 34. catastrophic

35.	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
36.	asut mission	n.	a person trained by a space agency to travel outside the Earth's atmosphere
37.	political maers	n.	a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
38.	asid mining	n.	a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
39.	enon the future	v.	to imagine or expect what a situation will be like in the future
40.	pose a coum	n.	a confusing and difficult problem or question
41.	coum of choice	n.	a confusing and difficult problem or question
42.	begin to r_t	v.	to decay, or cause something to decay, naturally and gradually
43.	go alt	adv.	in the air; at a high place
44.	baggage claim cael	n.	a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats
45.	geoary position	n.	describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator

ANSWERS: 35. falcon, 36. astronaut, 37. maneuver, 38. asteroid, 39. envision, 40. conundrum, 41. conundrum, 42. rot, 43. aloft, 44. carousel, 45. geostationary

46. cat____hic climate change

adj. extremely harmful; causing physical or financial destruction

ANSWERS: 46. catastrophic

Session 3: Fill in the Blanks

- 1. The rock was completely _____ and didn't react when we tried to break it open.
- *adj.* lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
- 2. We cannot _____ her as President.
- v. to imagine or expect what a situation will be like in the future
- 3. The group faced a ______ when they couldn't decide whether to go hiking or to the beach.
- *n.* a confusing and difficult problem or question
- 4. The product developed through years of research continues to ______ the market.
- *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
- 5. The hiker ______ their dog to a tree while they camped for the night.
- v. to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
- 6. The ______ operator made sure each child was safely seated before starting the ride
- *n.* a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats
- 7. The shuttle ______ trained for months before embarking on the space mission.
- *n.* a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 1. inert, 2. envision, 3. conundrum, 4. electrify, 5. tethered, 6. carousel, 7. astronaut

- 8. The Earth ______ around the Sun in an elliptical orbit.
- *v*. to rotate around a central point
- 9. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
- *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
- 10. The ______ on the suspension bridge helped keep it stable during windy conditions.
- *n.* a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage
- 11. In this class, we learn the basic _____ of the plane.
- *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
- 12. The extinction rate of aquatic animals was ______.
- adj. extremely harmful; causing physical or financial destruction
- 13. The lack of funds has resulted in a ______ for our university system.
- *n.* a sudden event that causes extreme ruin and misfortune
- 14. The hot air balloon rose _____ into the sky, giving the passengers a breathtaking countryside view.
- *adv.* in the air; at a high place
- 15. The wounded soldier lay ______ on the battlefield waiting for medical attention.
- adj. without movement or motion; completely still

ANSWERS: 8. revolves, 9. asteroid, 10. counterweight, 11. maneuver, 12. catastrophic, 13. catastrophe, 14. aloft, 15. motionless

- 16. 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
- 17. The ______ force of the spinning ride caused my hair to fly in all directions.
- *adj.* tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea
- 18. The ______ satellite remained in a fixed position in the sky.
- *n.* describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator
- 19. Carbon ______ are used in various fields of science and technology due to their unique properties.
- *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
- 20. Please refrigerate the meat, or it will _____.
- *v*. to decay, or cause something to decay, naturally and gradually
- 21. Ecuador is on the _____.
- *n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
- 22. The ______ force of the black hole was so strong that nothing, not even light, could escape.
- *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 16. falcon's, 17. centrifugal, 18. geostationary, 19. nanotubes, 20. rot, 21. equator, 22. gravitational

- 23. Eating food in a hurry _____ blood glucose levels.
 - v. to raise something from a lower to a higher position; to give a promotion to or assign to a higher position

ANSWERS: 23. elevates