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Vocabulary Builder Reference from...

Jill Seubert: How a miniaturized atomic clock could revolutionize space exploration | TED Talk https://www.ted.com/talks/jill_seubert_how_a_miniatu rized_atomic_clock_could_revolutionize_space_explo ration



Advanced Words Only

IMPORTANT

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Session 1: Word List

to lessen the intensity or force of something; to moderate or restrain one's feelings or emotions wnonym: lower, diminish, decrease			
(1) bate breath, (2) bate expectations			
I tried to bate my fear of heights by gradually climbing higher			
daily.			
 v. to move downward and lower; to come from, or to be connected by a relationship of blood synonym: dip, drop, come down 			
(1) descend a steep hill, (2) descend by elevator			
She was descended from an old Italian noble family.			
 n. (of American football) a scoring play that occurs when the ball is carried, kicked, or fumbled into the opposing team's end zone; the act of touching down or landing, particularly in aviation or spaceflight synonym: landing, score, goal 			
(1) touchdown pass, (2) touchdown celebration			
The quarterback scored a touchdown in the game's final seconds to win it.			

ecstatic	adj. feeling or characterized by intense joy, delight, or enthusiasm
	synonym: joyful, thrilled, exultant
	(1) ecstatic joy, (2) ecstatic dance
	She was ecstatic to receive the news that she had won the lottery.
livestream	 n. a real-time video or audio broadcast of an event, performance, or activity that is encoded and distributed over the Internet, usually through dedicated apps or websites, allowing distributed viewers to watch it remotely
	synonym: webcast, stream, broadcast
	(1) livestream tutorial, (2) livestream concert
	We watched the concert livestream since we couldn't attend
	in person.
telemetry	<i>n.</i> the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
	synonym: data transmission, remote measurement
	(1) telemetry technology, (2) telemetry system
	The satellite sends telemetry data back to Earth to help scientists study the atmosphere.
intrepid	<i>adj.</i> courageous and not afraid of danger or difficulties <i>synonym</i> : unfearing, courageous, dauntless
	(1) intrepid personality, (2) intrepid travelers
	There were still intrepid pioneers who planned to start their businesses
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.

revolutionize	 v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas synonym: transform, innovate, modernize
	(1) revolutionize the industry, (2) revolutionize the technology
	The invention of the smartphone revolutionized the way we communicate with each other.
steer	 v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone synonym: guide, direct, control
	(1) steer a steady course, (2) steer a conversation
	The captain told him to steer the ship north.
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.
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.
trajectory	n. the curved path followed by an object moving through space
	synonym: course, curve, orbit
	(1) career trajectory, (2) a trajectory missile
	The company has shown an excellent growth trajectory over
	the years.
crater	 n. a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

	synonym: cavity, hole, pit
	(1) crater lake, (2) lunar crater
	An enormous crater marks the area where the vast volcanic explosion occurred.
imbalance	 n. a situation in which two or more things are not equal or equally treated synonym: inequality, asymmetry, instability
	(1) trade imbalance , (2) symptoms of hormonal imbalance
	An imbalance in certain substances causes problems with brain function.
revisit	v. to go to a place again, especially after a long period synonym: reexplore, review, reexamine
	(1) revisit a place, (2) revisit an old friend
	We need to revisit this proposal as soon as the budget is more apparent than before.
uncharted	 adj. not mapped or surveyed; unknown or unexplored; without a clear or definite course of action synonym: unknown, unexplored, undiscovered
	(1) uncharted wilderness, (2) uncharted waters
	The explorer ventured into uncharted territory, not knowing what to expect.
onboard	 v. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device synonym: embark, aboard, on-load
	(1) onboard the new employees, (2) onboard computer
	The passengers were instructed to onboard the aircraft as
	quickly as possible so that the flight could depart on time.
robotic	<i>adj.</i> of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

	synonym: automated, mechanical, laborsaving
	(1) robotic arm, (2) robotic guide operation
	The surgeon removed the tumor using robotic video assistance.
astronaut	<i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere
	synonym: spaceman, cosmonaut
	(1) astronaut mission, (2) astronaut in training
	The shuttle astronaut trained for months before embarking on the space mission.
constellation	 n. a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people synonym: asterism, array, pattern
	(1) the stars of the Scorpion constellation, (2) northern constellation
	Navigators still use the Little Bear constellation at sea.
scatter	<i>v.</i> to cause to separate and go in different directions <i>synonym</i> : disperse, spread, bestrew
	(1) scatter seeds, (2) scatter around the internet
	The hunter's approach scattered the geese.
subsurface	adj. situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
	synonym: beneath the surface, underground, subterranean
	(1) subsurface mining, (2) subsurface oil reserves
	The subsurface layers of the ocean are still largely
	unexplored.
ісу	<i>adj.</i> covered with ice or frost; very cold; lacking warmth or friendliness
	synonym: frosty, cold, glacial

	 icy clouds, (2) cast icy eyes The icy surface of the pond was not safe for skating.
ripple	 a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind synonym: wave, undulation, fluctuation
	(1) a ripple of laughter, (2) ripple in the water
	Many businesses felt the ripple effect of the economy's decline.
relativism	 n. the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined synonym: subjectivism, skepticism
	(1) linguistic relativism , (2) cultural relativism
	Moral relativism suggests that there is no objective right or wrong.
exoplanet	<i>n.</i> a planet that orbits a star outside of the solar system
	(1) the closest exoplanet to Earth, (2) exoplanet mission
	The exoplanet Kepler-186f is located 500 light-years from
	Earth and is believed to be habitable.

Session 2: Spelling

1.	asut in training	n.	a person trained by a space agency to travel outside the Earth's atmosphere
2.	str a conversation	v.	to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
3.	linguistic relsm	n.	the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
4.	cultural relsm	n.	the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
5.	livam concert	n.	a real-time video or audio broadcast of an event, performance, or activity that is encoded and distributed over the Internet, usually through dedicated apps or websites, allowing distributed viewers to watch it remotely
6.	uned waters	adj.	not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
7.	northern conion	n.	a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
8.	an opne remark	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 1. astronaut, 2. steer, 3. relativism, 4. relativism, 5. livestream, 6. uncharted, 7. constellation, 8. opportune

9.	crr lake	n.	a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
10.	subce mining	adj.	situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
11.	rie in the water	n.	a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
12.	a trary missile	n.	the curved path followed by an object moving through space
13.	career trary	n.	the curved path followed by an object moving through space
14.	ecic dance	adj.	feeling or characterized by intense joy, delight, or enthusiasm
15.	ond the new employees	v.	to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
16.	revize the technology	v.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
17.	ded a steep hill	v.	to move downward and lower; to come from, or to be connected by a relationship of blood

ANSWERS: 9. crater, 10. subsurface, 11. ripple, 12. trajectory, 13. trajectory, 14. ecstatic, 15. onboard, 16. revolutionize, 17. descend

18. Jon satellites	adj.	relating to Jupiter or its characteristics
19. str a steady course	v.	to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
20. scr seeds	<i>v</i> .	to cause to separate and go in different directions
21. intlar space	adj.	relating to or located in the space between stars
22. be expectations	v.	to lessen the intensity or force of something; to moderate or restrain one's feelings or emotions
23. livam tutorial	n.	a real-time video or audio broadcast of an event, performance, or activity that is encoded and distributed over the Internet, usually through dedicated apps or websites, allowing distributed viewers to watch it remotely
24. uned wilderness	adj.	not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
25. lunar crr	n.	a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
26. roc arm	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
27. revize the industry	v.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas

ANSWERS: 18. Jovian, 19. steer, 20. scatter, 21. interstellar, 22. bate, 23. livestream, 24. uncharted, 25. crater, 26. robotic, 27. revolutionize

28. intlar communication	adj.	relating to or located in the space between stars
29. ret an old friend	v.	to go to a place again, especially after a long period
30. a rie of laughter	n.	a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
31. be breath	ν.	to lessen the intensity or force of something; to moderate or restrain one's feelings or emotions
32. ond computer	v.	to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
33. tery system	n.	the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
34. ded by elevator	v.	to move downward and lower; to come from, or to be connected by a relationship of blood
35. trade imce	n.	a situation in which two or more things are not equal or equally treated
36. opne occasion	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 28. interstellar, 29. revisit, 30. ripple, 31. bate, 32. onboard, 33. telemetry, 34. descend, 35. imbalance, 36. opportune

37. symptoms of hormonal imce	n.	a situation in which two or more things are not equal or equally treated
38. town pass	n.	(of American football) a scoring play that occurs when the ball is carried, kicked, or fumbled into the opposing team's end zone; the act of touching down or landing, particularly in aviation or spaceflight
39. subce oil reserves	adj.	situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
40. cast i_y eyes	adj.	covered with ice or frost; very cold; lacking warmth or friendliness
41. the closest exet to Earth	n.	a planet that orbits a star outside of the solar system
42. Jon planet	adj.	relating to Jupiter or its characteristics
43. ret a place	ν.	to go to a place again, especially after a long period
44. inid travelers	adj.	courageous and not afraid of danger or difficulties
45. town celebration	n.	(of American football) a scoring play that occurs when the ball is carried, kicked, or fumbled into the opposing team's end zone; the act of touching down or landing, particularly in aviation or spaceflight
46. exet mission	n.	a planet that orbits a star outside of the solar system

ANSWERS: 37. imbalance, 38. touchdown, 39. subsurface, 40. icy, 41. exoplanet, 42. Jovian, 43. revisit, 44. intrepid, 45. touchdown, 46. exoplanet

47. roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
48. the stars of the Scorpion conion	n.	a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
49. asut mission	n.	a person trained by a space agency to travel outside the Earth's atmosphere
50. ecic joy	adj.	feeling or characterized by intense joy, delight, or enthusiasm
51. i_y clouds	adj.	covered with ice or frost; very cold; lacking warmth or friendliness
52. tery technology	n.	the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
53. inid personality	adj.	courageous and not afraid of danger or difficulties
54. scr around the internet	v.	to cause to separate and go in different directions

ANSWERS: 47. robotic, 48. constellation, 49. astronaut, 50. ecstatic, 51. icy, 52. telemetry, 53. intrepid, 54. scatter

Session 3: Fill in the Blanks

- 1. Moral ______ suggests that there is no objective right or wrong.
- *n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
- 2. The passengers were instructed to ______ the aircraft as quickly as possible so that the flight could depart on time.
 - v. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
- 3. The _____ moon Europa is believed to have an ocean beneath its icy surface.
- *adj.* relating to Jupiter or its characteristics
- 4. The ______ layers of the ocean are still largely unexplored.
- *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
- 5. 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
- 6. The surgeon removed the tumor using ______ video assistance.
- *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
- 7. I tried to _____ my fear of heights by gradually climbing higher daily.
- *v.* to lessen the intensity or force of something; to moderate or restrain one's feelings or emotions

ANSWERS: 1. relativism, 2. onboard, 3. Jovian, 4. subsurface, 5. astronaut, 6. robotic, 7. bate

- 8. Many businesses felt the _____ effect of the economy's decline.
- *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
- 9. The ______ medium comprises gas, dust, and cosmic rays that fill the space between stars.
- *adj.* relating to or located in the space between stars
- 10. The company has shown an excellent growth ______ over the years.
- *n.* the curved path followed by an object moving through space
- 11. We watched the concert ______ since we couldn't attend in person.
- *n.* a real-time video or audio broadcast of an event, performance, or activity that is encoded and distributed over the Internet, usually through dedicated apps or websites, allowing distributed viewers to watch it remotely
- 12. The captain told him to _____ the ship north.
- *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
- 13. The quarterback scored a ______ in the game's final seconds to win it.
- *n.* (of American football) a scoring play that occurs when the ball is carried, kicked, or fumbled into the opposing team's end zone; the act of touching down or landing, particularly in aviation or spaceflight
- 14. The satellite sends ______ data back to Earth to help scientists study the atmosphere.
 - *n.* the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes

ANSWERS: 8. ripple, 9. interstellar, 10. trajectory, 11. livestream, 12. steer, 13. touchdown, 14. telemetry

- 15. There were still ______ pioneers who planned to start their businesses
- *adj.* courageous and not afraid of danger or difficulties
- 16. We need to ______ this proposal as soon as the budget is more apparent than before.
- v. to go to a place again, especially after a long period
- 17. The _____ surface of the pond was not safe for skating.
- *adj.* covered with ice or frost; very cold; lacking warmth or friendliness
- 18. The explorer ventured into ______ territory, not knowing what to expect.
- *adj.* not mapped or surveyed; unknown or unexplored; without a clear or definite course of action
- 19. Navigators still use the Little Bear ______ at sea.
- *n.* a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
- 20. The invention of the smartphone ______ the way we communicate with each other.
 - *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
- 21. An enormous _____ marks the area where the vast volcanic explosion occurred.
- *n*. a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
- 22. The phone rang at the most ______ time.
- *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 15. intrepid, 16. revisit, 17. icy, 18. uncharted, 19. constellation, 20. revolutionized, 21. crater, 22. opportune

- 23. An ______ in certain substances causes problems with brain function.
- *n.* a situation in which two or more things are not equal or equally treated
- 24. She was ______ to receive the news that she had won the lottery.
- *adj.* feeling or characterized by intense joy, delight, or enthusiasm
- 25. The ______ Kepler-186f is located 500 light-years from Earth and is believed to be habitable.
- *n.* a planet that orbits a star outside of the solar system
- 26. The hunter's approach ______ the geese.
 - *v*. to cause to separate and go in different directions
- 27. She was ______ from an old Italian noble family.
 - v. to move downward and lower; to come from, or to be connected by a relationship of blood

ANSWERS: 23. imbalance, 24. ecstatic, 25. exoplanet, 26. scattered, 27. descended