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Vocabulary Builder Reference from...

Dr. Matt J. Carlson: Free falling in outer space | TED Talk

https://www.ted.com/talks/dr_matt_j_carlson_free_falling_in_outer_space

All Words

IMPORTANT

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Session 1: Word List

comfy

adj. a casual, informal way of describing something comfortable or cozy, often associated with relaxation or leisure activities

synonym : cozy, comfortable, snug

(1) a **comfy** place to live, (2) **comfy** couch

I love wearing my **comfy** slippers on a lazy Sunday morning.

astronaut

n. 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.

neat

adj. clean or tidy, with everything in its place

synonym : tidy, uncluttered, refined

(1) a **neat** piece of work, (2) **neat** idea

She has **neat** habits.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles,

nerves, and blood vessels

synonym : path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**

The rocket engine is used to put the satellite into **orbit**.

roll

v. to move in a particular direction by turning over and over or from side to side

synonym : spin, swirl, wheel

(1) **roll** a ball, (2) **roll** down his cheeks

He was exhausted and **rolled** into bed as soon as he got home.

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.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym : experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

cannon

n. a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

synonym : artillery, gun, ordnance

(1) **cannon** salute, (2) **cannon** ball

The heavy **cannon** fired a loud shot that echoed across the battlefield.

cannonball

n. a large metal or stone ball shot or fired from a cannon

synonym : projectile, ammunition, bullet

(1) a 4 kg **cannonball**, (2) human **cannonball**

The castle collapsed as multiple **cannonballs** hit the walls.

curvature

n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

synonym : bend, arch, bow

(1) the degree of **curvature**, (2) spinal **curvature**

The **curvature** of the earth can be seen from space.

boom

n. a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound

synonym : roaring, prosperity, boost

(1) **boom** in sales, (2) a sonic **boom**

The high-technology industry is enjoying a **boom**.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym : move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

satellite

n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

synonym : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**

Launching an artificial **satellite** contributed to the technological development of our country.

pole

n. one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something

synonym : rod, staff, shaft

(1) a fishing **pole**, (2) the plus **pole**

The North **Pole** is the northernmost point on Earth.

sideways

adv. towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle

synonym : to the edge, obliquely, sidelong

(1) fall **sideways**, (2) a **sideways** market

She glanced **sideways** at the conversation of the boy she was interested in.

upward

adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

synonym : skyward, uphill

(1) look **upward**, (2) demonstrate an **upward** trend

The company adjusted the revenue **upward**.

technique

n. a particular way or art of doing something that needs skill

synonym : approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

atmospheric

adj. about or located in the earth's atmosphere

synonym : atmospherical, climatic

(1) doubling of **atmospheric** carbon dioxide,

(2) **atmospheric** pressure

The sea surface temperature and **atmospheric** circulation are inextricably linked.

friction

n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects

synonym : rub, scrape, resistance

(1) **friction** force, (2) surface **friction**

The **friction** between the two countries was causing tension.

recommend

v. to suggest that someone or something would be a suitable fit for a particular purpose or role

synonym : advise, suggest, instruct

(1) **recommend** a hospitalization, (2) **recommend** reading

We **recommend** taking media training every six months.

Session 2: Spelling

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| 1. re_____nd reading | <i>v.</i> to suggest that someone or something would be a suitable fit for a particular purpose or role |
| 2. as_____ut in training | <i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere |
| 3. demonstrate an up____d trend | <i>adv.</i> toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place |
| 4. a si_____ys market | <i>adv.</i> towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle |
| 5. a co__y place to live | <i>adj.</i> a casual, informal way of describing something comfortable or cozy, often associated with relaxation or leisure activities |
| 6. ca____n salute | <i>n.</i> a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting |
| 7. human can_____ll | <i>n.</i> a large metal or stone ball shot or fired from a cannon |
| 8. r__l down his cheeks | <i>v.</i> to move in a particular direction by turning over and over or from side to side |
| 9. doubling of atm_____ic carbon dioxide | <i>adj.</i> about or located in the earth's atmosphere |

ANSWERS: 1. recommend, 2. astronaut, 3. upward, 4. sideways, 5. comfy, 6. cannon, 7. cannonball, 8. roll, 9. atmospheric

10. co__y couch *adj.* a casual, informal way of describing something comfortable or cozy, often associated with relaxation or leisure activities
11. Ne_____an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
12. look up___d *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
13. the plus p__e *n.* one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something
14. fr_____on force *n.* the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
15. a sonic b__m *n.* a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound
16. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
17. spinal cu_____re *n.* the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

ANSWERS: 10. comfy, 11. Newtonian, 12. upward, 13. pole, 14. friction, 15. boom, 16. zoom, 17. curvature

18. a meteorological sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
19. b__m in sales *n.* a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound
20. a 4 kg can_____ll *n.* a large metal or stone ball shot or fired from a cannon
21. a n__t piece of work *adj.* clean or tidy, with everything in its place
22. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
23. r__l a ball *v.* to move in a particular direction by turning over and over or from side to side
24. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
25. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
26. fall si_____ys *adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
27. Ne_____an physics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
28. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill

ANSWERS: 18. satellite, 19. boom, 20. cannonball, 21. neat, 22. astronaut, 23. roll, 24. experiment, 25. zoom, 26. sideways, 27. Newtonian, 28. technique

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|---|--|
| 29. a planetary or__t | <i>n.</i> the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels |
| 30. ca___n ball | <i>n.</i> a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting |
| 31. n__t idea | <i>adj.</i> clean or tidy, with everything in its place |
| 32. surface fr_____on | <i>n.</i> the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects |
| 33. atm_____ic pressure | <i>adj.</i> about or located in the earth's atmosphere |
| 34. the degree of cu_____re | <i>n.</i> the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve |
| 35. a GPS sa_____te | <i>n.</i> an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc. |
| 36. the te_____ue applied to construction | <i>n.</i> a particular way or art of doing something that needs skill |

ANSWERS: 29. orbit, 30. cannon, 31. neat, 32. friction, 33. atmospheric, 34. curvature, 35. satellite, 36. technique

37. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
38. the or__t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
39. a fishing p__e *n.* one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something
40. re_____nd a hospitalization *v.* to suggest that someone or something would be a suitable fit for a particular purpose or role

ANSWERS: 37. experiment, 38. orbit, 39. pole, 40. recommend

Session 3: Fill in the Blanks

1. The heavy _____ fired a loud shot that echoed across the battlefield.
n. a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

2. The high-technology industry is enjoying a _____.
n. a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound

3. We _____ taking media training every six months.
v. to suggest that someone or something would be a suitable fit for a particular purpose or role

4. The rocket engine is used to put the satellite into _____.
n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

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 sea surface temperature and _____ circulation are inextricably linked.
adj. about or located in the earth's atmosphere

7. I love wearing my _____ slippers on a lazy Sunday morning.
adj. a casual, informal way of describing something comfortable or cozy, often associated with relaxation or leisure activities

ANSWERS: 1. cannon, 2. boom, 3. recommend, 4. orbit, 5. astronaut, 6. atmospheric, 7. comfy

8. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
9. The company adjusted the revenue _____.
adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
10. Launching an artificial _____ contributed to the technological development of our country.
n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
11. She glanced _____ at the conversation of the boy she was interested in.
adv. towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
12. The _____ between the two countries was causing tension.
n. the force that opposes motion between two objects in contact, especially by producing heat and wear, and is proportional to the normal force between the objects
13. The North ____ is the northernmost point on Earth.
n. one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something
14. She has ____ habits.
adj. clean or tidy, with everything in its place

ANSWERS: 8. experiments, 9. upward, 10. satellite, 11. sideways, 12. friction, 13. Pole, 14. neat

15. The motion of planets can be described using _____ mechanics.

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

16. The _____ of the earth can be seen from space.

n. the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

17. The castle collapsed as multiple _____ hit the walls.

n. a large metal or stone ball shot or fired from a cannon

18. Jockey's superior _____ brought him victory.

n. a particular way or art of doing something that needs skill

19. He _____ back in time to the soccer game.

v. to move along very quickly; (noun) the act of rising upward into the air

20. He was exhausted and _____ into bed as soon as he got home.

v. to move in a particular direction by turning over and over or from side to side

ANSWERS: 15. Newtonian, 16. curvature, 17. cannonballs, 18. technique, 19. zoomed, 20. rolled