# **Englist.me**

# Vocabulary Builder Reference from...

Richard Browning: How do jetpacks work? And why don't we all have them? | TED Talk https://www.ted.com/talks/richard\_browning\_how\_do \_jetpacks\_work\_and\_why\_don\_t\_we\_all\_have\_them



# **Advanced Words Only**

#### **IMPORTANT**

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# **Session 1: Word List**

#### cosmonaut

 a Russian astronaut or space traveler; a person trained to travel and work in space, particularly as part of the Soviet or Russian space program

synonym: astronaut, spacefarer, space traveler

(1) **cosmonaut** training, (2) female **cosmonaut**Soviet **cosmonauts** like Gagarin and Leonov were celebrated as national heroes.

#### onlooker

- a person who watches an event or situation without directly participating, often as a spectator or bystander
  synonym: bystander, spectator, watcher
- (1) curious **onlooker**, (2) spectating **onlooker**Many **onlookers** gathered at the beach to witness the rare sea turtle hatching.

#### enthuse

v. to express enthusiastic approval or appreciation for something; to become highly interested or excited about something

synonym: excite, thrill, inspire

(1) **enthuse** with energy, (2) **enthuse** over her performance The company's CEO's enthusiasm for the new product line **enthused** the entire staff.

### **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.

#### counteract

 to act against something to reduce its bad or harmful effects or neutralize it

*synonym*: balance, offset, compensate

(1) **counteract** the effect of poison, (2) **counteract** global warming

Our body's immune system produces antibodies to **counteract** disease.

# 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.

## expel

v. to officially force someone to leave a school, organization, or country

synonym: deport, oust, dislodge

(1) **expel** him from his native country, (2) **expel** air from the lungs

He took a big drag of his cigarette and slowly **expelled** the smoke.

## compress

 to press or squeeze together to make something take up less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

# inject

 to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

# ignite

- v. to set on fire; to cause to start burningsynonym: light, set fire to, ignite
- (1) **ignite** a boom, (2) **ignite** passion He **ignited** the fireworks with a single spark.

# propel

v. to move, drive or push something forward or in a particular direction, often with a lot of force

synonym: drive, push, move

(1) **propel** growth, (2) **propel** the ship

An increase in employment helps **propel** economic growth.

#### nozzle

 a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

synonym: spout, sprayer, tube

(1) **nozzle** attachment, (2) fuel **nozzle** 

The car wash **nozzle** sprayed a powerful stream of soapy water onto the vehicle.

## airborne

adj. moved or conveyed by or through the air; in the air synonym: flying, aerial, floating

(1) airborne troop, (2) airborne particles

The amount of **airborne** pollen this year is higher than usual.

# jetpack

- n. a device worn on the back that propels the wearer into the air by expelling jets of gas or watersynonym: rocket belt, rocket pack, flying belt
- (1) jetpack technology, (2) futuristic jetpack

The astronaut's **jetpack** allowed him to move freely in zero gravity.

# improvisation

- n. 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**.

# 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.

### akin

- adj. similar or related in nature, character, or origin synonym: similar, related, alike
- (1) **akin** to anger, (2) **akin** to the prior experiences Her interests are **akin** to mine.

## crutch

a device used to provide support or stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility

synonym: brace, support, prop

(1) **crutch** support, (2) emotional **crutch**He walked with the aid of a **crutch** after breaking his leg in a skiing accident.

#### calibrate

 to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance

synonym: adjust, fine-tune

(1) **calibrate** machinery, (2) **calibrate** measurements It's important to **calibrate** the equipment regularly to ensure

accurate results.

midair

- n. some point in the air; above ground level
- (1) a **midair** collision, (2) thrown out into **midair** She flawlessly performed a **midair** somersault.

glide

- v. to move smoothly and effortlessly synonym: slide, skim, coast
- (1) **glide** through the water, (2) **glide** down the mountain The eagle gracefully **glided** on the thermals, soaring above the mountains.

# **Session 2: Spelling**

1. ex\_\_I him from his native country

2. spectating on er

3. en\_\_\_e over her performance

4. gl e down the mountain

5. gra\_\_\_\_nal energy

6. co\_\_\_ss the chest

7. pr\_\_\_I the ship

8. imp\_\_\_\_\_ion on stage

9. ig\_\_\_e a boom

10. ca te machinery

v. to officially force someone to leave a school, organization, or country

 a person who watches an event or situation without directly participating, often as a spectator or bystander

v. to express enthusiastic approval or appreciation for something; to become highly interested or excited about something

v. to move smoothly and effortlessly

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

v. to press or squeeze together to make something take up less space

 to move, drive or push something forward or in a particular direction, often with a lot of force

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

v. to set on fire; to cause to start burning

v. to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance

ANSWERS: 1. expel, 2. onlooker, 3. enthuse, 4. glide, 5. gravitational, 6. compress, 7. propel, 8. improvisation, 9. ignite, 10. calibrate

Vocab-Builder Ref from "Richard Browning: How do jetpacks work? And why don't we all have them? | TED Talk" (21 words)

ANSWERS: 11. expel, 12. midair, 13. enthuse, 14. improvisation, 15. inject, 16. inject, 17. cosmonaut, 18. akin, 19. cosmonaut

Vocab-Builder Ref from "Richard Browning: How do jetpacks work? And why don't we all have them? | TED Talk" (21 words)

ANSWERS: 20. calibrate, 21. akin, 22. jetpack, 23. airborne, 24. nozzle, 25. compress, 26. crutch, 27. counteract, 28. jetpack, 29. Newtonian

32. op\_\_\_\_ne occasion adj. suitable or happening at a time that is suitable or convenient for a particular purpose

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

to move, drive or push something forward or in a particular direction, often with a lot of force

a device used to provide support or n. stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility

to act against something to reduce its ν. bad or harmful effects or neutralize it

to set on fire; to cause to start burning ν.

to move smoothly and effortlessly

adj. moved or conveyed by or through the air; in the air

a person who watches an event or situation without directly participating, often as a spectator or bystander

33. gra nal waves

34. pr\_\_\_l growth

35. cr h support

36. cou ct global warming

37. ig\_\_\_e passion

38. gl e through the water

39. ai\_\_\_ne troop

40. curious on er

ANSWERS: 30. midair, 31. opportune, 32. opportune, 33. gravitational, 34. propel, 35. crutch, 36. counteract, 37. ignite, 38. glide, 39. airborne, 40. onlooker

- 41. Ne\_\_\_\_an mechanics
- 42. no\_\_\_e attachment

- adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
- a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

ANSWERS: 41. Newtonian, 42. nozzle

# **Session 3: Fill in the Blanks**

1.	He took a big drag of his cigarette and slowly the smoke.
<i>v</i> .	to officially force someone to leave a school, organization, or country
2.	Our body's immune system produces antibodies to disease.
<i>v</i> .	to act against something to reduce its bad or harmful effects or neutralize it
3.	The eagle gracefully on the thermals, soaring above the mountains.
ν.	to move smoothly and effortlessly
4.	The amount of pollen this year is higher than usual.
adj	moved or conveyed by or through the air; in the air
5.	Her interests are to mine.
adj	similar or related in nature, character, or origin
6.	The company's CEO's enthusiasm for the new product line the entire staff.
<i>v</i> .	to express enthusiastic approval or appreciation for something; to become highly interested or excited about something
7.	The car wash sprayed a powerful stream of soapy water onto the vehicle.
n.	a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
8.	The phone rang at the most time.
adj	suitable or happening at a time that is suitable or convenient for a particular purpose
	SWERS: 1. expelled, 2. counteract, 3. glided, 4. airborne, 5. akin, 6. enthused, 7 zzle, 8. opportune

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70cab-builder Rei from Richard Browning. How do jetpacks work? And why don't we all have them?   TED Talk (21 word
17. 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)
18. She flawlessly performed a somersault.
n. some point in the air; above ground level
19. The motion of planets can be described using mechanics.
adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
20. It's important to the equipment regularly to ensure accurate results.
v. to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
21. She the files into a single ZIP archive to save space on her computer.
v. to press or squeeze together to make something take up less space
ANSWERS: 17. gravitational, 18. midair, 19. Newtonian, 20. calibrate, 21. compressed