Englist.me

Vocabulary Builder Reference from...

David Camarillo: Why helmets don't prevent concussions -- and what might | TED Talk https://www.ted.com/talks/david_camarillo_why_helm ets_don_t_prevent_concussions_and_what_might



Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

concussion

 a violent blow or jolt to the head or body that jars the brain, often resulting in temporary or prolonged unconsciousness, confusion, or memory loss; a shock or upheaval caused by a sudden change or event

synonym: shock, trauma, head injury

(1) **concussion** symptoms, (2) **concussion** resistance The football player suffered a **concussion** after being tackled during the game.

evoke

 to bring or recall a feeling, memory, or image into your mind

synonym: arouse, raise, inspire

evoke a sense of awe, (2) evoke sympathy
 This movie is likely to evoke strong emotions in the viewer.

dementia

a severe decline in cognitive function, especially memory, as a result of disease or injury

synonym: cognitive decline, memory loss, Alzheimer's disease

(1) **dementia** patients, (2) probably have **dementia**The study found that regular exercise can help to prevent the onset of **dementia** in older age.

Alzheimer

 a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

encephalopathy

n. disease or damage to the brain that disrupts the normal functioning of the brain, which cause a wide range of symptoms, including memory loss, confusion, seizures, and decreased cognitive abilities

synonym: brain disease, brain damage, neurological disorder

(1) hepatic **encephalopathy**, (2) acute **encephalopathy** A severe case of **encephalopathy** left the patient with permanent brain damage.

blacksmith

- a smith who forges and shapes iron with a hammer and anvil
- (1) **blacksmith** welding, (2) **blacksmith** shop The **blacksmith** shaped a horseshoe on his anvil.

rev

a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym: revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd He stepped on the gas pedal, and the engine released a loud **rev**.

smashing

adj. very successful or impressive; causing something to be broken or destroyed

synonym: great, wonderful, breaking

(1) a **smashing** blow, (2) give **smashing** results
The band's new album was a **smashing** success, reaching the top of the charts.

rebound

v. to spring back into a former shape or position after being compressed or stretched

synonym: spring back, resile, recover

(1) **rebound** from a setback, (2) **rebound** back into positive growth

The basketball bounced off the rim and **rebounded** to the player.

oscillate

v. to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive

synonym: fluctuate, swing, vibrate

(1) **oscillate** back and forth, (2) **oscillate** between joy and anger

The fan in the room **oscillates**, making the airflow more evenly.

vault

 a large room or chamber used for storage, often for valuables such as money, documents, or artwork; (verb) to leap or jump over something; to move quickly or suddenly

synonym: safe, strongbox, coffer

(1) **vault** door, (2) **vault** from five to fifty percent
The government **vault** contains top-secret documents and classified information that only a few individuals can access.

contort

v. to (cause something to) twist and press out of its natural or normal shape

synonym: deform, disfigure, distort

(1) contort my limbs, (2) contort the face

He **contorted** his smile with anger coming from his gut.

accelerometer

 a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration

synonym: sensor, g-sensor, gravimeter

(1) accelerometer reading, (2) high-precision accelerometer

The phone's **accelerometer** measures its movement and orientation in three-dimensional space.

gyroscope

n. a device consisting of a spinning wheel or disk mounted in such a way that it can rotate freely in any direction, used to maintain balance, stability, or orientation in navigation, aerospace, or other systems

synonym: gyro, stabilizer, compass

- (1) **gyroscope** sensor, (2) inertial navigation **gyroscope** The **gyroscope** in the spacecraft helps to stabilize its orientation during the mission.
- a dead body, especially one used for scientific study or medical research

synonym: corpse, body, remains

(1) cadaver lab, (2) cadaver donor

The hospital received a donation of **cadavers** for their research program.

announcer

cadaver

 a person who introduces and speaks on television or radio programs or provides commentary or information at a live event

synonym: emcee, broadcaster, commentator

(1) public address **announcer**, (2) radio **announcer**The sports **announcer** provided live commentary during the game.

cougar

 a large predatory feline animal, also known as a mountain lion or puma, which is native to the Americas; an older woman who pursues sexual or romantic relationships with much younger men

synonym: puma, catamount, panther

cougar lift, (2) the cougar's ex-husband
 we saw a large cougar as we hiked through the mountains.

roar

- v. to make a loud, deep sound, like a lion or a car engine synonym: bellow, yell, shout
- (1) roar with laughter, (2) roar for more

The lion **roared** loudly, signaling its dominance over the other animals.

counterintuitive

adj. contrary to what common sense would suggest synonym: unreasonable, paradoxical, nonsensical

(1) **counterintuitive** results, (2) **counterintuitive** behavior The **counterintuitive** nature of quantum physics has been a source of confusion for scientists for decades.

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**.

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.

lobe

 a rounded projection or division, especially of the brain, lung, or liver

synonym: part, section, division

(1) **lobe** of the liver, (2) frontal **lobe**

The lungs are divided into five lobes.

fissure

 a narrow opening or crack, especially in a rock or other hard substance; a division or splitting within a group or organization

synonym: crack, crevice, gap

(1) pulmonary **fissure**, (2) **fissure** in the relationship

The **fissure** in the rock was too narrow to squeeze through.

callosum

- a large bundle of nerve fibers that connects the two hemispheres of the brain
- (1) removal of the corpus **callosum**, (2) corpus **callosum** fiber

The corpus **callosum** is essential for coordinating the functions of the two hemispheres.

dissociation

the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms

synonym: separation, detachment, disconnection

(1) trauma-related **dissociation**, (2) **dissociation** reaction His dissociation from his emotions made him distant and unresponsive.

atrophy

- a decrease in size of a muscle, organ, etc., caused by disease or disuse
- synonym: disintegration, degeneration, wasting away
- (1) weakness with **atrophy**, (2) **atrophy** of the muscles Daily exercise and adequate sleep are necessary to prevent the progression of atrophy.

ventricle

a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

synonym: chamber, pumping heart muscle

(1) left **ventricle**, (2) **ventricle** in the brain The heart's **ventricles** are responsible for pumping blood out to the body.

synchronous

- adj. occurring or operating at the same time or pace; happening simultaneously; coordinated or synchronized synonym: simultaneous, concurrent, parallel
- (1) synchronous communication, (2) synchronous

learning

The group of performers perfectly executed the **synchronous** dance routine.

stuntman

 a professional performer who performs dangerous and often physically demanding tasks or stunts in place of an actor in a film or television show

synonym: stunt double, body double, stand-in

(1) stuntman performance, (2) skilled stuntman

The professional **stuntman** jumped from the burning building and landed safely on the airbag below.

airbag

 a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death

synonym: air cushion, safety bag, crash bag

(1) defective airbag, (2) airbag deployment

The **airbag** system in the car saved the driver's life in a severe crash.

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.

industrious

adj. hardworking, diligent, and persistent in effort synonym: diligent, hardworking, assiduous

(1) industrious worker, (2) industrious student

He was known to be very **industrious** and would often work late into the night.

grandparent

- n. a parent of one's father or mother
- (1) great- **grandparent**, (2) person of **grandparent** age
 She was close to her paternal **grandparents** and often spent summers with them.

Session 2: Spelling

 2. l_e of the liver a rounded projection or division, especially of the brain, lung, or liver 3. high-precision accter a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration 4. radio aner a person who introduces and speaks on television or radio programs or provides commentary or information at a live event 5. defective aig a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death 6. couive behavior adj. contrary to what common sense would suggest 7. red from a setback v. to spring back into a former shape or position after being compressed or stretched 8. vele in the brain n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body 	1.	indus worker	adj.	hardworking, diligent, and persistent in effort
changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration 4. radio aner n. a person who introduces and speaks on television or radio programs or provides commentary or information at a live event 5. defective aig n. a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death 6. couive behavior adj. contrary to what common sense would suggest 7. red from a setback v. to spring back into a former shape or position after being compressed or stretched 8. vele in the brain n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the	2.	Ie of the liver	n.	•
television or radio programs or provides commentary or information at a live event 5. defective aig n. a safety device designed to inflate rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death 6. couive behavior adj. contrary to what common sense would suggest 7. red from a setback v. to spring back into a former shape or position after being compressed or stretched 8. vele in the brain n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the	3.	high-precision accter	n.	changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things
rapidly in the event of a collision, protecting the occupants of a vehicle and reducing the risk of injury or death 6. couive behavior adj. contrary to what common sense would suggest 7. red from a setback v. to spring back into a former shape or position after being compressed or stretched 8. vele in the brain n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the	4.	radio aner	n.	television or radio programs or provides commentary or information at a live
suggest 7. red from a setback 7. red from a setback 8. vele in the brain 7. red from a setback 8. vele in the brain 9. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the	5.	defective aig	n.	rapidly in the event of a collision, protecting the occupants of a vehicle
position after being compressed or stretched 8. vele in the brain n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the	6.	couive behavior	adj.	•
structure, particularly the lower chamber of the heart that pumps blood to the	7.	red from a setback	v.	position after being compressed or
	8.	vele in the brain	n.	structure, particularly the lower chamber of the heart that pumps blood to the

ANSWERS: 1. industrious, 2. lobe, 3. accelerometer, 4. announcer, 5. airbag, 6. counterintuitive, 7. rebound, 8. ventricle

ANSWERS: 9. synchronous, 10. cadaver, 11. Alzheimer, 12. oscillate, 13. concussion, 14. lobe, 15. oscillate, 16. grandparent, 17. encephalopathy

ANSWERS: 18. counterintuitive, 19. roar, 20. dementia, 21. contort, 22. fissure, 23. concussion, 24. rebound, 25. compress, 26. callosum, 27. rot

to maintain balance, stability, or orientation in navigation, aerospace, or other systems

or disk mounted in such a way that it can rotate freely in any direction, used

ANSWERS: 28. smashing, 29. dissociation, 30. roar, 31. announcer, 32. smashing, 33. evoke, 34. contort, 35. cougar, 36. gyroscope

- money, documents, or artwork; (verb) to leap or jump over something; to move quickly or suddenly
- a narrow opening or crack, especially in a rock or other hard substance; a division or splitting within a group or organization

ANSWERS: 44. synchronous, 45. atrophy, 46. grandparent, 47. rev, 48. explode, 49. explode, 50. atrophy, 51. airbag, 52. vault, 53. fissure

53. pulmonary fi e

ANSWERS: 54. dissociation, 55. rot, 56. ventricle, 57. vault, 58. blacksmith, 59. industrious, 60. callosum, 61. stuntman, 62. cadaver

63. the co___r's ex-husband

- 64. co___ss gas
- 65. ev__e a sense of awe
- 66. acc____ter reading

- n. a large predatory feline animal, also known as a mountain lion or puma, which is native to the Americas; an older woman who pursues sexual or romantic relationships with much younger men
- v. to press or squeeze together to make something take up less space
- to bring or recall a feeling, memory, or image into your mind
- n. a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration

ANSWERS: 63. cougar, 64. compress, 65. evoke, 66. accelerometer

Session 3: Fill in the Blanks

1.	The heart's	are respon	nsible for pumping blood out to the b	ody.	
n.		•	gan or structure, particularly the lowe the lungs and other parts of the body		
2.	He was known to b	e very	and would often work late into	the night.	
adj	i. hardworking, dilig	gent, and persist	tent in effort		
3.	A severe case of _ damage.		_ left the patient with permanent brain	า	
n.	disease or damage to the brain that disrupts the normal functioning of the brain, which cause a wide range of symptoms, including memory loss, confusion, seizures, and decreased cognitive abilities				
4.	The football player	suffered a	after being tackled during th	e game.	
n.	a violent blow or jolt to the head or body that jars the brain, often resulting in temporary or prolonged unconsciousness, confusion, or memory loss; a shock or upheaval caused by a sudden change or event				
5.	The sports	provided live	e commentary during the game.		
n.	•	-	eaks on television or radio programs tion at a live event	or	
6.	The fan in the roon	າ	making the airflow more evenly.		
<i>v</i> .	to swing or move back and forth like a pendulum or a wave; to fluctuate or alternate between two points or states; to hesitate or be indecisive				
7.	The corpushemispheres.	is essential f	for coordinating the functions of the	:WO	
n.	a large bundle of	nerve fibers that	t connects the two hemispheres of the	ne brain	
	SWERS: 1. ventriclenouncer, 6. oscillate		s, 3. encephalopathy, 4. concussion,	5.	

30.	The band's new album was a	success, reaching the top of the charts.
adj.	very successful or impressive; causing	g something to be broken or destroyed
	The study found that regular exercise cain older age.	an help to prevent the onset of
n.	a severe decline in cognitive function, or injury	especially memory, as a result of disease
32.	This movie is likely to strong emo	otions in the viewer.
v.	to bring or recall a feeling, memory, or	image into your mind
33.	The in the rock was too narrov	v to squeeze through.
n.	a narrow opening or crack, especially division or splitting within a group or or	
ANS	SWERS: 30. smashing, 31. dementia, 32	2. evoke, 33. fissure