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Vocabulary Builder Reference from...

Fabio Pacucci: The battle that formed the universe |

TED Talk

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

hat_formed_the_universe



IMPORTANT

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Session 1: Word List

contender

- n. the contestant you hope to defeat
- synonym: rival, competitor, challenger
- (1) championship contender, (2) presidential contender

We were looking at a severe **contender** indeed.

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.

baryon

 a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei

synonym: particle, hadron, nucleon

(1) baryon number, (2) baryon resonance

The **baryon** density in the early universe is believed to have significantly impacted the formation of galaxies.

innumerable

adj. too many to be counted

synonym: many, infinite, countless

(1) **innumerable** stars, (2) give **innumerable** interviews



We have overcome **innumerable** difficulties since our founding.

proton

- a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
- (1) **proton** decay, (2) **proton** conductivity

 The solar wind is composed almost entirely of electrons and **protons**.

tug

- v. to pull something quickly and hard, often several times synonym: draw, jerk, pull
- (1) tug a rope, (2) tug at his handThis movie tugs at everyone's heartstrings.

exert

- v. to put forth effort; to put into action; to bring into play synonym: exert, apply, use
- (1) exert control, (2) exert influenceHe exerted himself to lift the heavyweight.

forceful

- adj. having or showing great strength or energysynonym: powerful, strong, energetic
- forceful argument, (2) take forceful action
 She spoke with a forceful tone and made her point clear.

shove

- v. to push someone or something in a rough way synonym: push, jab, elbow
- (1) **shove** a person aside, (2) **shove** hamburger into my mouth

He forcibly **shoved** the flyer into my bag.

heave

v. to lift or hoist something heavy with effort; to throw or hurl something, often with force; to rise or fall with a rhythmic motion, as in the heaving of the sea

synonym: lift, hoist, tug

(1) heave a sigh, (2) heave a boulder

The workers had to **heave** the heavy equipment up the staircase to the top floor.

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.

imaginable

adj. capable of being imaginedsynonym: conceivable, plausible, possible

(1) easily **imaginable**, (2) worst **imaginable** case This is the only **imaginable** strategy.

determinant

 a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

trough

- a long, narrow container used for feeding farm animals;
 a low point or depression between two ridges or peaks;
 a prolonged period of low economic or emotional activity
- synonym: trough, channel, depression
- (1) the **trough** in an economic cycle, (2) **trough-shaped** valley

The farmers filled the feeding **trough** with hay for the livestock.

brawl

 a noisy and violent fight involving a group of people; a chaotic and unruly disturbance or conflict synonym: fight, scuffle, skirmish

(1) barroom brawl, (2) street brawl

The **brawl** at the nightclub resulted in several injuries and arrests.

stalemate

 a situation in which neither side of a conflict or dispute can make progress or gain an advantage, typically resulting in a deadlock or impasse

synonym: deadlock, impasse, standstill

(1) political stalemate, (2) stalemate situation

The negotiations between the two companies reached a **stalemate**, and neither side would compromise.

dissipated

adj. dispersed or scattered in different directions; wasted or squandered on excessive or extravagant pleasures such as drinking, partying, or gambling; characterized by a lack of focus or discipline

synonym: debauched, dissolute, decadent

(1) dissipated lifestyle, (2) dissipated energy

His **dissipated** behavior at the party concerned his friends, who wondered if he had a substance abuse problem.

recombine

- v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
- (1) **recombine** at the surface, (2) ability to **recombine**Some scientists argue that the genes in food should not be artificially **recombined**.

reckless

adj. marked by a lack of care about danger and the likely results of your actions

synonym: impetuous, irresponsible, thoughtless

(1) **reckless** driving, (2) in a **reckless** manner **Reckless** youth makes rueful age.

illuminating

adj. making something clear or easy to understand; providing light synonym: enlightening, informative, clarifying

(1) **illuminating** light, (2) an **illuminating** answer The lecture was **illuminating** and gave me a new perspective on the topic.

undefeated

adj. not having been beaten or conquered; having won every contest or battle

synonym: invincible, unbeaten

(1) undefeated record, (2) an undefeated team

The football team remained **undefeated** throughout the entire season.

pervasive

adj. spreading or existing throughout every part of a thing or place

synonym: extensive, ubiquitous, prevalent

(1) **pervasive** language, (2) the **pervasive** odor of garlic Suspicion and worry were **pervasive** in our minds.

rivalry

n. competition or opposition between people or groups, especially in sports or business

synonym: competition, contest, struggle

(1) fierce rivalry, (2) rivalry among airlines

The **rivalry** between the two teams was intense and heated.

inward

adj. directed or facing towards the inside; inside or inward-looking

synonym: internal, introspective, interior

(1) inward peace, (2) inward cargo

The **inward** motion of the tide was gradually slowing down.

challenger

 a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge

synonym: contender, rival, contestant

(1) challenger brand, (2) political challenger

The **challenger** in the boxing match put up a good fight.

Session 2: Spelling

10. political st____te

1.	a detnt of crop yields	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
2.	fierce riy	n.	competition or opposition between people or groups, especially in sports o business
3.	ind cargo	adj.	directed or facing towards the inside; inside or inward-looking
4.	innle stars	adj.	too many to be counted
5.	easily imale	adj.	capable of being imagined
6.	an unded team	adj.	not having been beaten or conquered; having won every contest or battle
7.	unded record	adj.	not having been beaten or conquered; having won every contest or battle
8.	hee a boulder	<i>v</i> .	to lift or hoist something heavy with effort; to throw or hurl something, often with force; to rise or fall with a rhythmic motion, as in the heaving of the sea
9.	trh-shaped valley	n.	a long, narrow container used for feeding farm animals; a low point or depression between two ridges or

ANSWERS: 1. determinant, 2. rivalry, 3. inward, 4. innumerable, 5. imaginable, 6.

undefeated, 7. undefeated, 8. heave, 9. trough, 10. stalemate

peaks; a prolonged period of low economic or emotional activity

a deadlock or impasse

a situation in which neither side of a

conflict or dispute can make progress or gain an advantage, typically resulting in

11.	chaer brand	n.	a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge
12.	prn conductivity	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
13.	take foul action	adj.	having or showing great strength or energy
14.	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
15.	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
16.	oste between joy and anger	<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
17.	barroom brI	n.	a noisy and violent fight involving a group of people; a chaotic and unruly disturbance or conflict
18.	political chaer	n.	a person or thing that challenges or competes with someone or something else; a contestant in a competition or challenge
19.	ext control	ν.	to put forth effort; to put into action; to bring into play

ANSWERS: 11. challenger, 12. proton, 13. forceful, 14. ripple, 15. ripple, 16. oscillate, 17. brawl, 18. challenger, 19. exert

20.	presidential coer	n.	the contestant you hope to defeat
21.	t_g at his hand	<i>v</i> .	to pull something quickly and hard, often several times
22.	she hamburger into my mouth	<i>v</i> .	to push someone or something in a rough way
23.	dised lifestyle	adj.	dispersed or scattered in different directions; wasted or squandered on excessive or extravagant pleasures such as drinking, partying, or gambling; characterized by a lack of focus or discipline
24.	peve language	adj.	spreading or existing throughout every part of a thing or place
25.	foul argument	adj.	having or showing great strength or energy
26.	ress driving	adj.	marked by a lack of care about danger and the likely results of your actions
27.	ind peace	adj.	directed or facing towards the inside; inside or inward-looking
28.	hee a sigh	ν.	to lift or hoist something heavy with effort; to throw or hurl something, often with force; to rise or fall with a rhythmic motion, as in the heaving of the sea
29.	stte situation	n.	a situation in which neither side of a conflict or dispute can make progress or gain an advantage, typically resulting in a deadlock or impasse
30.	in a ress manner	adj.	marked by a lack of care about danger and the likely results of your actions

ANSWERS: 20. contender, 21. tug, 22. shove, 23. dissipated, 24. pervasive, 25. forceful, 26. reckless, 27. inward, 28. heave, 29. stalemate, 30. reckless

31.	she a person aside	<i>v</i> .	to push someone or something in a rough way
32.	dised energy	adj.	dispersed or scattered in different directions; wasted or squandered on excessive or extravagant pleasures such as drinking, partying, or gambling; characterized by a lack of focus or discipline
33.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
34.	ban number	n.	a subatomic particle, such as a proton or neutron, that is composed of three quarks and is responsible for the formation of atomic nuclei
35.	riy among airlines	n.	competition or opposition between people or groups, especially in sports or business
36.	rene at the surface	v.	to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
37.	give innle interviews	adj.	too many to be counted
38.	ext influence	<i>v</i> .	to put forth effort; to put into action; to bring into play
39.	oste back and forth	<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

ANSWERS: 31. shove, 32. dissipated, 33. determinant, 34. baryon, 35. rivalry, 36. recombine, 37. innumerable, 38. exert, 39. oscillate

street brI he peve odor of garlic	n.	a noisy and violent fight involving a group of people; a chaotic and unruly
he pe ve odor of garlic		disturbance or conflict
	adj.	spreading or existing throughout every part of a thing or place
_g a rope	<i>v</i> .	to pull something quickly and hard, often several times
orn decay	n.	a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
vorst imale case	adj.	capable of being imagined
ability to rene	<i>v</i> .	to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
he trh in an economic cycle	n.	a long, narrow container used for feeding farm animals; a low point or depression between two ridges or peaks; a prolonged period of low economic or emotional activity
championship coer	n.	the contestant you hope to defeat
Iling light	adj.	making something clear or easy to understand; providing light
	orn decay worst imale case ability to rene the trh in an economic cycle championship coer Iling light	orn decay n. worst imale case adj. ability to rene v. the trh in an economic cycle n. championship coer n. Iling light adj.

ANSWERS: 40. baryon, 41. brawl, 42. pervasive, 43. tug, 44. proton, 45. imaginable, 46. recombine, 47. trough, 48. contender, 49. illuminating

Vocab-Builder Ref from	"Fabio Pacucci:	The battle that for	med the universe	I TED Talk"	(25 words

50. an ill____ing answer

adj. making something clear or easy to understand; providing light

ANSWERS: 50. illuminating

Session 3: Fill in the Blanks

1.		behavior at the party coabuse problem.	oncerned his friends, who wondered if he
adj	excessive or e		ctions; wasted or squandered on ich as drinking, partying, or gambling; cipline
2.	The	in the boxing match pu	ıt up a good fight.
n.	•	ng that challenges or co a competition or challe	empetes with someone or something else nge
3.	The lecture was	and gav	ve me a new perspective on the topic.
adj	making someth	ning clear or easy to und	derstand; providing light
4.	youth	makes rueful age.	
adj	marked by a la	ck of care about dange	and the likely results of your actions
5.	Oneethic.	of success is having	a positive attitude and a strong work
n.		nstance, or condition that of a particular outcome	at contributes to the shaping, influencing, or result
6.	This is the only _	strategy.	
adj	capable of beir	ng imagined	
7.		tween the two teams wa	
n.	competition or business	opposition between ped	ople or groups, especially in sports or
	SWERS: 1. dissip maginable, 7. riva		lluminating, 4. Reckless, 5. determinant,

12. The workers had to _____ the heavy equipment up the staircase to the top floor.

alternate between two points or states; to hesitate or be indecisive

v. to lift or hoist something heavy with effort; to throw or hurl something, often with force; to rise or fall with a rhythmic motion, as in the heaving of the sea

13. She spoke with a _____ tone and made her point clear.

adj. having or showing great strength or energy

14. We have overcome _____ difficulties since our founding.

adj. too many to be counted

15. The _____ motion of the tide was gradually slowing down.

adj. directed or facing towards the inside; inside or inward-looking

ANSWERS: 8. baryon, 9. brawl, 10. exerted, 11. oscillates, 12. heave, 13. forceful, 14. innumerable, 15. inward

ANSWERS: 16. tugs, 17. recombined, 18. protons, 19. trough, 20. shoved, 21. contender, 22. undefeated, 23. ripple

it or a slight wind

	Suspicion and worry were in our minds. spreading or existing throughout every part of a thing or place				
25.	The negotiations between the two companies reached a and neither side would compromise.				
n.	 a situation in which neither side of a conflict or dispute can make progress or gain an advantage, typically resulting in a deadlock or impasse 				

Vocab-Builder Ref from "Fabio Pacucci: The battle that formed the universe | TED Talk" (25 words)

ANSWERS: 24. pervasive, 25. stalemate,