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Vocabulary Builder Reference from...

Venus Keus: Three ways the universe could end |

TED Talk

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

he_universe_could_end



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Session 1: Word List

cosmology

n. the scientific study of the nature and origin of the universe

synonym: cosmogony

physical cosmology, (2) modern cosmology
 Cosmology evolved from people's philosophical questions about the natural world.

crunch

n. a loud, crackling noise made by something being crushed or broken; a difficult or critical situationsynonym: crushing, snapping, crisis

(1) financial crunch, (2) a gas crunch

The **crunch** of the leaves underfoot was heard as they walked through the park.

repulsive

adj. causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influencesynonym: disgusting, revolting, repugnant

(1) repulsive smell, (2) repulsive act

The politician's rhetoric was so **repulsive** that many people refused to vote for him.

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.

elasticity

 the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change

synonym: flexibility, pliability, suppleness

(1) elasticity coefficient, (2) skin elasticity

The **elasticity** of the rubber band allowed it to stretch without breaking.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym: disband, disappear, liquefy

- (1) **dissolve** the sugar, (2) officially **dissolved** the marriage The political party **dissolved** after much internal fighting.
- v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution During the unloading, the container box **emits** a clicking sound.

redshift

n. a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe

synonym: doppler shift

(1) redshift effect, (2) Doppler redshift

emit

The **redshift** in the galaxy's light suggested it was moving away from us.

emanate

 to emit, send out something; to express a quality or feeling

synonym: radiate, exude, give off

(1) emanate light, (2) emanate happiness

The fragrance of flowers **emanated** from the garden.

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.

clump

- n. a small group of bushes, trees, flowers, people, etc.
- synonym: cluster, bunch, bundle
- (1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

hurtle

v. to move quickly and forcefully, especially in an uncontrolled or dangerous way

synonym: throw, hurl, fling

(1) hurtle into a tunnel, (2) hurtle through life

The car **hurtled** down the highway at breakneck speed.

collide

v. to hit something violently when moving

synonym: clash, slam, contradict

(1) collide head-on, (2) collide in midair

The interests of the two countries **collide**.

plummet

v. to fall or drop suddenly and steeply; to decline rapidly or sharply

synonym: drop, plunge, fall

(1) plummeting sales, (2) plummet against other major

currencies

The stock prices have **plummeted** in the last hour, causing concern for investors.

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.

precede

v. to happen or go before something or someone in time or space

synonym: lead, forego, antecede

(1) men often **precede** women when walking, (2) **precede** any discussion

Agricultural development generally **precedes** economic growth.

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.

mitten

 a glove with a separate sheath for the thumb but a combined sheath for the four fingers, typically warmer than a traditional glove

synonym: glove, gauntlet, handwear

(1) fingerless **mitten**, (2) knitted **mitten**

My mom knit me a pair of warm woolen **mittens** for the winter.

Session 2: Spelling

1.	coe head-on	<i>v</i> .	to hit something violently when moving
2.	men often pre women when walking	<i>v</i> .	to happen or go before something or someone in time or space
3.	granal waves	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
4.	Doppler reft	n.	a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe
5.	elaty coefficient	n.	the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
6.	eme happiness	<i>v</i> .	to emit, send out something; to express a quality or feeling
7.	coss gas	<i>v</i> .	to press or squeeze together to make something take up less space
8.	et air pollution	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
9.	physical cogy	n.	the scientific study of the nature and origin of the universe

ANSWERS: 1. collide, 2. precede, 3. gravitational, 4. redshift, 5. elasticity, 6. emanate, 7. compress, 8. emit, 9. cosmology

10.	et a gamma ray	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
11.	granal energy	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
12.	financial crh	n.	a loud, crackling noise made by something being crushed or broken; a difficult or critical situation
13.	hue into a tunnel	<i>v</i> .	to move quickly and forcefully, especially in an uncontrolled or dangerous way
14.	pre any discussion	<i>v</i> .	to happen or go before something or someone in time or space
15.	reve act	adj.	causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
16.	plt against other major currencies	<i>v</i> .	to fall or drop suddenly and steeply; to decline rapidly or sharply
17.	knitted min	n.	a glove with a separate sheath for the thumb but a combined sheath for the four fingers, typically warmer than a traditional glove
18.	coss the chest	<i>v</i> .	to press or squeeze together to make something take up less space
19.	modern cogy	n.	the scientific study of the nature and origin of the universe
20.	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

ANSWERS: 10. emit, 11. gravitational, 12. crunch, 13. hurtle, 14. precede, 15. repulsive, 16. plummet, 17. mitten, 18. compress, 19. cosmology, 20. determinant

21. a gas crh	n.	a loud, crackling noise made by something being crushed or broken; a difficult or critical situation
22. dive the sugar	<i>v</i> .	to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
23. a clp of trees	n.	a small group of bushes, trees, flowers people, etc.
24. exe in anger	ν.	to burst or break open violently and noisily; to cause something to burst or break open
25. coe in midair	ν.	to hit something violently when moving
26. skin elaty	n.	the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
27. reft effect	n.	a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength or shifts to the red end of the spectrum as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe

28. pl___ting sales

29. hu e through life

- al situation o be absorbed by a part of the solution; to lismiss f bushes, trees, flowers,
 - k open violently and e something to burst or
 - y violently when moving
 - naterial to return to its after being stretched or exibility; adaptability to
 - ysics, particularly in the gy, that describes how ectromagnetic radiation ncreases in wavelength, ed end of the spectrum, ay from an observer, principle behind the Big nd the expansion of the
 - to fall or drop suddenly and steeply; to ν. decline rapidly or sharply
 - to move quickly and forcefully, ν. especially in an uncontrolled or dangerous way

ANSWERS: 21. crunch, 22. dissolve, 23. clump, 24. explode, 25. collide, 26. elasticity, 27. redshift, 28. plummet, 29. hurtle

30.	fingerless min	n.	a glove with a separate sheath for the thumb but a combined sheath for the four fingers, typically warmer than a traditional glove
31.	eme light	<i>v</i> .	to emit, send out something; to express a quality or feeling
32.	clp of bacteria	n.	a small group of bushes, trees, flowers, people, etc.
33.	environmental detnt	n.	a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
34.	exe in popularity	<i>v</i> .	to burst or break open violently and noisily; to cause something to burst or break open
35.	reve smell	adj.	causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
36.	officially dived the marriage	<i>v</i> .	to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

ANSWERS: 30. mitten, 31. emanate, 32. clump, 33. determinant, 34. explode, 35. repulsive, 36. dissolve

Session 3: Fill in the Blanks

1.	The stock prices have in the last hour, causing concern for investors.
ν.	to fall or drop suddenly and steeply; to decline rapidly or sharply
2. n.	My mom knit me a pair of warm woolen for the winter. a glove with a separate sheath for the thumb but a combined sheath for the
3.	four fingers, typically warmer than a traditional glove She the files into a single ZIP archive to save space on her
ν.	computer. to press or squeeze together to make something take up less space
4.	The politician's rhetoric was so that many people refused to vote for him.
adj	causing strong dislike or disgust; offensive, unpleasant, or grotesque; resisting or rejecting contact or influence
5.	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)
6. n.	The of the leaves underfoot was heard as they walked through the park. a loud, crackling noise made by something being crushed or broken; a difficult or critical situation
7. n.	The of the rubber band allowed it to stretch without breaking. the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change
	SWERS: 1. plummeted, 2. mittens, 3. compressed, 4. repulsive, 5. gravitational, 6. nch, 7. elasticity

ANSWERS: 8. hurtled, 9. redshift, 10. emits, 11. dissolved, 12. clump, 13. emanated, 14. precedes, 15. determinant

16.	The interests of the two countries
v.	to hit something violently when moving
17.	The old building in a fiery inferno.
v.	to burst or break open violently and noisily; to cause something to burst or break open
18.	evolved from people's philosophical questions about the natural world.
n.	the scientific study of the nature and origin of the universe

ANSWERS: 16. collide, 17. exploded, 18. Cosmology