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Vocabulary Builder Reference from...

Sajan Saini: What is the universe expanding into? |
TED Talk

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

Advanced Words Only

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Session 1: Word List

faraway

adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible

synonym: distant, remote, far-off

(1) **faraway** land, (2) **faraway** dream

The view from the **faraway** hilltop was breathtakingly beautiful.

recede

v. to pull back or move away or backward

synonym: move back, retreat, downsize

(1) **recede** from view, (2) **recede** in the darkness

The king's political power **receded** even further.

moreover

adv. indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before

synonym: furthermore, besides, in addition

(1) **moreover**, she decided to go, (2) but **moreover**, they work well together

The company is environmentally conscious, and **moreover**, it uses sustainable materials in its products.

loaf

n. a quantity of bread that is shaped and baked in one piece and usually sliced for serving; (verb) to be lazy or

idle

synonym : bread, boule, brioche

(1) crusty **loaf**, (2) **loaf** around during the day

On my way home from work, I picked up a **loaf** of bread from the bakery.

raisin

n. a dried grape, typically made from certain varieties of grapes that are specifically grown for this purpose; a popular snack food or baking ingredient

synonym : dried grape, sultana, currant

(1) **raisin** pie, (2) **raisin** oatmeal cookies

The **raisin** bread had a deliciously sweet flavor.

batter

v. to hit something or someone repeatedly with much force; (noun, baseball) a ballplayer who is batting

synonym : beat, pound, strike

(1) **batter** the eggs, (2) the **batter's** box

He got so angry that he **battered** the door down.

intergalactic

adj. existing or occurring between different galaxies (= an independent group of stars)

synonym : extragalactic, cosmic, interstellar

(1) **intergalactic** travel, (2) **intergalactic** matter

The **intergalactic** spaceship traveled to distant planets.

tug

v. to pull something quickly and hard, often several times

synonym : draw, jerk, pull

(1) **tug** a rope, (2) **tug** at his hand

This movie **tugs** at everyone's heartstrings.

cosmology

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

synonym : cosmogony

(1) physical **cosmology**, (2) modern **cosmology**

Cosmology evolved from people's philosophical questions about the natural world.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

spacetime

n. a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

(1) **spacetime** continuum, (2) quantum **spacetime**

The curvature of **spacetime** is affected by the presence of mass and energy.

kink

n. a tight curl, twist or bend in an object, particularly in a piece of wire, hose, or tubing; a peculiar or eccentric liking or habit

synonym: bend, twist, curl

(1) **kink** in the neck, (2) sexual **kink**

The **kink** in the hose was preventing water from flowing correctly.

sparse

adj. only in small quantities or numbers and often spread over a wide area

synonym: scarce, exiguous, infrequent

(1) a **sparse** population, (2) **sparse** snowfall

There is a **sparse** area between galaxies.

fluctuation

n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

synonym: change, instability, flux

(1) price **fluctuations**, (2) **fluctuation** of water level

Temperature **fluctuations** are often milder in oceanfront areas.

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.

inflate

v. to fill something with air or gas so that it becomes bigger and rounder

synonym : blow up, expand, puff up

(1) **inflate** a tire, (2) **inflate** expense reports

She **inflated** the balloons for the party.

multiverse

n. a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

(1) the **multiverse** hypothesis, (2) the concept of the **multiverse**

The various universes within the **multiverse** are sometimes called parallel universes.

quark

n. a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet

(1) **quark** physics, (2) the antiparticle of a **quark**

The Big Bang theory states that **quark-gluon** plasma filled the entire universe before matter as we know it was created.

vibrate

v. to move or cause anything to move fast and in small increments from side to side

synonym : oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

bran

n. the outermost layer of cereal grain, such as wheat or rice, which is removed during milling and is often used as animal feed or as a source of dietary fiber for humans; a type of coarse, fibrous substance that

remains as a residue or byproduct in various industrial processes, such as oil extraction or papermaking

synonym : husk, chaff, grain shell

(1) **bran** muffins, (2) **bran** cereal

Adding **bran** to your meals can help improve your digestion and increase fiber intake.

coexist

v. to live or exist together at the same time in the same place

synonym : cohabit, accompany, synchronize

(1) **coexist** with nature, (2) **coexist** with diversity

The different species can **coexist** in the same ecosystem by filling different niches and using different resources.

relic

n. an object from a previous era, especially one of historical value

synonym : whiff, vestige, antique

(1) historical **relic**, (2) holy **relics**

This bronze sword is a **relic** of ancient times.

coalesce

v. to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

synonym : merge, combine, unite

(1) **coalesce** ideas, (2) **coalesce** with the other

The various departments of the company will **coalesce** into one cohesive unit.

Session 2: Spelling

1. ra___n oatmeal cookies *n.* a dried grape, typically made from certain varieties of grapes that are specifically grown for this purpose; a popular snack food or baking ingredient

2. the concept of the mul_____se *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

3. crusty l__f *n.* a quantity of bread that is shaped and baked in one piece and usually sliced for serving; (verb) to be lazy or idle

4. in_____e expense reports *v.* to fill something with air or gas so that it becomes bigger and rounder

5. sp_____me continuum *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

6. sp___e snowfall *adj.* only in small quantities or numbers and often spread over a wide area

7. co_____ce ideas *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

8. b__n muffins *n.* the outermost layer of cereal grain, such as wheat or rice, which is removed during milling and is often used as animal feed or as a source of dietary fiber for humans; a type of coarse, fibrous substance that remains as a residue or byproduct in various industrial processes, such as oil extraction or papermaking

ANSWERS: 1. raisin, 2. multiverse, 3. loaf, 4. inflate, 5. spacetime, 6. sparse, 7. coalesce, 8. bran

9. fa____y land *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
10. co____t with nature *v.* to live or exist together at the same time in the same place
11. l__f around during the day *n.* a quantity of bread that is shaped and baked in one piece and usually sliced for serving; (verb) to be lazy or idle
12. mo____er, she decided to go *adv.* indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
13. price flu____ons *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
14. sexual k__k *n.* a tight curl, twist or bend in an object, particularly in a piece of wire, hose, or tubing; a peculiar or eccentric liking or habit
15. quantum sp____me *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
16. a cl__p of trees *n.* a small group of bushes, trees, flowers, people, etc.
17. physical co____gy *n.* the scientific study of the nature and origin of the universe

ANSWERS: 9. faraway, 10. coexist, 11. loaf, 12. moreover, 13. fluctuation, 14. kink, 15. spacetime, 16. clump, 17. cosmology

18. vi____e at a regular frequency *v.* to move or cause anything to move fast and in small increments from side to side
19. co____ce with the other *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
20. historical re__c *n.* an object from a previous era, especially one of historical value
21. co____t with diversity *v.* to live or exist together at the same time in the same place
22. fa____y dream *adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible
23. the mul____se hypothesis *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
24. k__k in the neck *n.* a tight curl, twist or bend in an object, particularly in a piece of wire, hose, or tubing; a peculiar or eccentric liking or habit
25. a sp____e population *adj.* only in small quantities or numbers and often spread over a wide area
26. sp____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
27. ba____r the eggs *v.* to hit something or someone repeatedly with much force; (noun, baseball) a ballplayer who is batting
28. flu____on of water level *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

ANSWERS: 18. vibrate, 19. coalesce, 20. relic, 21. coexist, 22. faraway, 23. multiverse, 24. kink, 25. sparse, 26. speculate, 27. batter, 28. fluctuation

38. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
39. modern co_____gy *n.* the scientific study of the nature and origin of the universe
40. t_g a rope *v.* to pull something quickly and hard, often several times
41. int_____tic travel *adj.* existing or occurring between different galaxies (= an independent group of stars)
42. re___e in the darkness *v.* to pull back or move away or backward
43. the antiparticle of a qu__k *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
44. re___e from view *v.* to pull back or move away or backward
45. qu__k physics *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
46. vi_____e with anger *v.* to move or cause anything to move fast and in small increments from side to side

ANSWERS: 38. speculate, 39. cosmology, 40. tug, 41. intergalactic, 42. recede, 43. quark, 44. recede, 45. quark, 46. vibrate

Session 3: Fill in the Blanks

1. The _____ in the hose was preventing water from flowing correctly.
 - n.* a tight curl, twist or bend in an object, particularly in a piece of wire, hose, or tubing; a peculiar or eccentric liking or habit

2. The _____ bread had a deliciously sweet flavor.
 - n.* a dried grape, typically made from certain varieties of grapes that are specifically grown for this purpose; a popular snack food or baking ingredient

3. The different species can _____ in the same ecosystem by filling different niches and using different resources.
 - v.* to live or exist together at the same time in the same place

4. I heard the _____ of his boots in the hallway.
 - n.* a small group of bushes, trees, flowers, people, etc.

5. This movie _____ at everyone's heartstrings.
 - v.* to pull something quickly and hard, often several times

6. During the flight, the wings of the plane _____.
 - v.* to move or cause anything to move fast and in small increments from side to side

7. He _____ that this investment would lead to success.
 - v.* to form a theory or conjecture or guess about a subject without solid evidence

8. Temperature _____ are often milder in oceanfront areas.
 - n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

ANSWERS: 1. kink, 2. raisin, 3. coexist, 4. clump, 5. tugs, 6. vibrate, 7. speculated, 8. fluctuations

9. The various universes within the _____ are sometimes called parallel universes.
- n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
10. The Big Bang theory states that _____ plasma filled the entire universe before matter as we know it was created.
- n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
11. Adding _____ to your meals can help improve your digestion and increase fiber intake.
- n.* the outermost layer of cereal grain, such as wheat or rice, which is removed during milling and is often used as animal feed or as a source of dietary fiber for humans; a type of coarse, fibrous substance that remains as a residue or byproduct in various industrial processes, such as oil extraction or papermaking
12. The curvature of _____ is affected by the presence of mass and energy.
- n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
13. The various departments of the company will _____ into one cohesive unit.
- v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
14. The view from the _____ hilltop was breathtakingly beautiful.
- adj.* located at a geographically distant place; remote or separated by distance; distant or not easily accessible

ANSWERS: 9. multiverse, 10. quark-gluon, 11. bran, 12. spacetime, 13. coalesce, 14. faraway

15. _____ evolved from people's philosophical questions about the natural world.
n. the scientific study of the nature and origin of the universe
16. He got so angry that he _____ the door down.
v. to hit something or someone repeatedly with much force; (noun, baseball) a ballplayer who is batting
17. There is a _____ area between galaxies.
adj. only in small quantities or numbers and often spread over a wide area
18. The company is environmentally conscious, and _____ it uses sustainable materials in its products.
adv. indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
19. She _____ the balloons for the party.
v. to fill something with air or gas so that it becomes bigger and rounder
20. The king's political power _____ even further.
v. to pull back or move away or backward
21. This bronze sword is a _____ of ancient times.
n. an object from a previous era, especially one of historical value
22. The _____ spaceship traveled to distant planets.
adj. existing or occurring between different galaxies (= an independent group of stars)

ANSWERS: 15. Cosmology, 16. battered, 17. sparse, 18. moreover, 19. inflated, 20. receded, 21. relic, 22. intergalactic

23. On my way home from work, I picked up a _____ of bread from the bakery.

- n.* a quantity of bread that is shaped and baked in one piece and usually sliced for serving; (verb) to be lazy or idle

ANSWERS: 23. loaf