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Vocabulary Builder Reference from...

Jean-François Bastin: What if there were 1 trillion more trees? | TED Talk

https://www.ted.com/talks/jean_francois_bastin_what_if_there_were_1_trillion_more_trees

Advanced Words Only

IMPORTANT

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Session 1: Word List

sequoia

n. a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood

synonym : redwood

(1) a giant **sequoia**, (2) **Sequoia** National Park

The **sequoia** tree is known for its massive size and long lifespan.

sequester

v. to take temporary possession of someone's property until a debt is paid.

synonym : isolate, set apart, segregate

(1) **sequester** ten percent of the annual carbon emissions,

(2) **sequester** myself from the world

He approved their requests to **sequester** the jury.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

carbohydrate

n. (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

synonym : sugar, starch, cellulose

(1) complex **carbohydrate**, (2) **carbohydrate** metabolism
Foods high in **carbohydrates** include bread, pasta, and rice.

respiration

n. the process of inhaling and exhaling air to exchange oxygen and carbon dioxide with the environment; the total of the physiological processes by which living organisms metabolize oxygen and release carbon dioxide

synonym : breathing, ventilation

(1) **respiration** rate, (2) artificial **respiration**
The doctor carefully monitored the patient's **respiration** during the surgery.

vault

n. 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.

seep

v. to flow or leak slowly and gradually through small openings or spaces; to ooze or trickle out gradually

synonym : leak, ooze, trickle

(1) **seep** cool and moist air, (2) **seep** into paper
The rain began to **seep** through the roof, causing damage to the walls and floors.

scatter

v. to cause to separate and go in different directions

synonym : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet
The hunter's approach **scattered** the geese.

deplete

v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

synonym : exhaust, consume, use up

(1) **deplete** customer confidence, (2) **deplete** glycogen stores

If we continue to **deplete** the Earth's natural resources, we will cause severe damage to the environment.

determinant

n. 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.

hectare

n. a unit of area equal to 10,000 square meters

(1) **hectare** land, (2) housing per **hectare**

The farm spans over 100 **hectares** of land.

staggering

adj. so shocking as to stun or overwhelm

synonym : astounding, astonishing, stunning

(1) **staggering** number, (2) a **staggering** defeat

The amount of money required was **staggering**.

rev

n. 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**.

unintended

adj. not planned or meant

synonym: accidental, unconsenting, involuntary

(1) **unintended** bias, (2) **unintended** misunderstanding

Excessive human interference in the global environment may bring **unintended** consequences.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical**

Biochemical research is essential to understanding the complex chemical reactions in living organisms.

titanic

adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

synonym: colossal, massive, immense

(1) **titanic** battle, (2) **titanic** compound

The **titanic** ship sank on its maiden voyage.

Session 2: Spelling

1. environmental det_____nt
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
2. res_____on rate
n. the process of inhaling and exhaling air to exchange oxygen and carbon dioxide with the environment; the total of the physiological processes by which living organisms metabolize oxygen and release carbon dioxide
3. r_v up the crowd
n. 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
4. uni_____ed bias
adj. not planned or meant
5. a giant se_____a
n. a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
6. process of pho_____sis
n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
7. ti_____c battle
adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

ANSWERS: 1. determinant, 2. respiration, 3. rev, 4. unintended, 5. sequoia, 6. photosynthesis, 7. titanic

8. complex bio_____al *adj.* relating to the chemical processes and substances that occur within living organisms
9. de_____e glycogen stores *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
10. housing per he_____e *n.* a unit of area equal to 10,000 square meters
11. a sta_____ng defeat *adj.* so shocking as to stun or overwhelm
12. oxygenic pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
13. se_____er myself from the world *v.* to take temporary possession of someone's property until a debt is paid.
14. sta_____ng number *adj.* so shocking as to stun or overwhelm
15. ti_____c compound *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
16. bio_____al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
17. va__t from five to fifty percent *n.* 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

ANSWERS: 8. biochemical, 9. deplete, 10. hectare, 11. staggering, 12. photosynthesis, 13. sequester, 14. staggering, 15. titanic, 16. biochemical, 17. vault

18. s__p cool and moist air *v.* to flow or leak slowly and gradually through small openings or spaces; to ooze or trickle out gradually
19. s__p into paper *v.* to flow or leak slowly and gradually through small openings or spaces; to ooze or trickle out gradually
20. complex car_____ate *n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals
21. Se_____a National Park *n.* a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
22. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
23. artificial res_____on *n.* the process of inhaling and exhaling air to exchange oxygen and carbon dioxide with the environment; the total of the physiological processes by which living organisms metabolize oxygen and release carbon dioxide
24. de_____e customer confidence *v.* to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials
25. sc_____r seeds *v.* to cause to separate and go in different directions

ANSWERS: 18. seep, 19. seep, 20. carbohydrate, 21. sequoia, 22. determinant, 23. respiration, 24. deplete, 25. scatter

26. se_____er ten percent of the annual carbon emissions *v.* to take temporary possession of someone's property until a debt is paid.
27. low-r_v engine *n.* 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
28. he_____e land *n.* a unit of area equal to 10,000 square meters
29. car_____ate metabolism *n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals
30. uni_____ed misunderstanding *adj.* not planned or meant
31. va__t door *n.* 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
32. sc_____r around the internet *v.* to cause to separate and go in different directions

ANSWERS: 26. sequester, 27. rev, 28. hectare, 29. carbohydrate, 30. unintended, 31. vault, 32. scatter

Session 3: Fill in the Blanks

1. Foods high in _____ include bread, pasta, and rice.
n. (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

2. The rain began to _____ through the roof, causing damage to the walls and floors.
v. to flow or leak slowly and gradually through small openings or spaces; to ooze or trickle out gradually

3. If we continue to _____ the Earth's natural resources, we will cause severe damage to the environment.
v. to reduce something, especially supplies of energy, money, etc., by a large amount; to use up resources or materials

4. The doctor carefully monitored the patient's _____ during the surgery.
n. the process of inhaling and exhaling air to exchange oxygen and carbon dioxide with the environment; the total of the physiological processes by which living organisms metabolize oxygen and release carbon dioxide

5. The hunter's approach _____ the geese.
v. to cause to separate and go in different directions

6. The farm spans over 100 _____ of land.
n. a unit of area equal to 10,000 square meters

7. Excessive human interference in the global environment may bring _____ consequences.
adj. not planned or meant

ANSWERS: 1. carbohydrates, 2. seep, 3. deplete, 4. respiration, 5. scattered, 6. hectares, 7. unintended

8. _____ research is essential to understanding the complex chemical reactions in living organisms.
adj. relating to the chemical processes and substances that occur within living organisms
9. The _____ tree is known for its massive size and long lifespan.
n. a huge evergreen tree that is native to California and has a straight trunk and a narrow, conical crown, which is a type of redwood
10. He stepped on the gas pedal, and the engine released a loud _____.
n. 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
11. The amount of money required was _____.
adj. so shocking as to stun or overwhelm
12. The government _____ contains top-secret documents and classified information that only a few individuals can access.
n. 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
13. He approved their requests to _____ the jury.
v. to take temporary possession of someone's property until a debt is paid.
14. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

ANSWERS: 8. Biochemical, 9. sequoia, 10. rev, 11. staggering, 12. vault, 13. sequester, 14. determinant

15. In _____ plants use carbon dioxide to feed themselves.
- n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
16. The _____ ship sank on its maiden voyage.
- adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

ANSWERS: 15. photosynthesis, 16. titanic