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Vocabulary Builder Reference from...

Cesar Harada: How I teach kids to love science | TED Talk

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

Advanced Words Only

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Session 1: Word List

stumble

v. to miss a step and fall or nearly fall; to walk unsteadily
synonym: bumble, struggle, misstep

(1) **stumble** financially, (2) **stumble** through life

She **stumbled** over the tree root.

horrify

v. to shock or disgust greatly
synonym: shock, dismay, terrify

(1) **horrify** audience, (2) **horrify** victims

The series of terrorist attacks **horrify** the entire nation.

workbench

n. a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
synonym: worktable, bench, desk

(1) **workbench** design, (2) wooden **workbench**

I must organize my tools on the **workbench** before starting my project.

grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym: mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh

cup.

excite

v. to make someone feel suddenly enthusiastic or eager
synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

hyperconnected

adj. having multiple, complex links or relationships between different people, objects, or systems

synonym: highly connected, fully connected

(1) **hyperconnected** network, (2) **hyperconnected** technology

The world has become increasingly **hyperconnected**, with the internet and social media playing a significant role in communication and information exchange.

mangrove

n. a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it

(1) **mangrove** forest, (2) **mangrove** swamp

The **mangrove** trees are known for their ability to survive in saltwater and sandy soil.

spectrometer

n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

synonym: spectroscope, analyzer, detector

(1) **spectrometer** measurement, (2) optical **spectrometer**

The infrared **spectrometer** helped identify the chemical composition of the sample.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym: compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

compel

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

synonym : force, oblige, coerce

(1) **compel** a person to submission, (2) **compel** attention

The strict deadlines will **compel** the team to work efficiently.

topographical

adj. relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location

synonym : terrain, geographic, landform

(1) **topographical** data, (2) **topographical** survey

The **topographical** map of the region revealed the rugged terrain we would face on the hike.

sprinkler

n. a device that sprays water over a large area used especially for watering crops or gardens or for firefighting

synonym : sprayer, irrigation system

(1) road **sprinkler**, (2) **sprinkler** irrigation

The **sprinkler** system kept the lawn green and healthy.

seabed

n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms

synonym : ocean floor, sea bottom

(1) **seabed** mining, (2) **seabed** habitat

The dense coral reefs on the **seabed** provide a home for various marine life.

sampler

n. a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products

(1) **sampler** album, (2) electronic **sampler**

The artist made a **sampler** of different paint textures and colors to help her decide what to use for her next project.

estuary

n. a place where a river meets the sea, typically where the fresh and saltwater mix

synonym: delta, mouth, inlet

(1) **estuary** port, (2) **estuary** delta

The mouth of the river formed an **estuary** where saltwater and freshwater met.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

sushi

n. a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed

synonym: raw fish, sashimi, nigiri

(1) **sushi** bar, (2) **sushi** roll

I love going out for **sushi** with my friends on Friday nights.

Session 2: Spelling

1. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
2. optical spe_____ter *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
3. co___l a person to submission *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
4. spe_____ter measurement *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
5. hyp_____ted technology *adj.* having multiple, complex links or relationships between different people, objects, or systems
6. road sp_____er *n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
7. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
8. ho_____y victims *v.* to shock or disgust greatly
9. electronic sa_____r *n.* a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products

ANSWERS: 1. excite, 2. spectrometer, 3. compel, 4. spectrometer, 5. hyperconnected, 6. sprinkler, 7. improvisation, 8. horrify, 9. sampler

10. ma____ve swamp *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
11. gr__d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
12. es____y delta *n.* a place where a river meets the sea, typically where the fresh and saltwater mix
13. st____e through life *v.* to miss a step and fall or nearly fall; to walk unsteadily
14. es____y port *n.* a place where a river meets the sea, typically where the fresh and saltwater mix
15. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
16. sp_____er irrigation *n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
17. top_____cal survey *adj.* relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location
18. co___l attention *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

ANSWERS: 10. mangrove, 11. grind, 12. estuary, 13. stumble, 14. estuary, 15. improvisation, 16. sprinkler, 17. topographical, 18. compel

19. top_____cal data *adj.* relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location
20. sa_____r album *n.* a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products
21. em_____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
22. se_____d habitat *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
23. hyp_____ted network *adj.* having multiple, complex links or relationships between different people, objects, or systems
24. ho_____y audience *v.* to shock or disgust greatly
25. full of em_____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation
26. ex_____e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 19. topographical, 20. sampler, 21. empathy, 22. seabed, 23. hyperconnected, 24. horrify, 25. empathy, 26. excite

27. gr__d away at my work *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
28. wooden wo_____ch *n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
29. st_____e financially *v.* to miss a step and fall or nearly fall; to walk unsteadily
30. ma_____ve forest *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
31. su__i roll *n.* a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed
32. wo_____ch design *n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
33. se____d mining *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
34. su__i bar *n.* a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed

ANSWERS: 27. grind, 28. workbench, 29. stumble, 30. mangrove, 31. sushi, 32. workbench, 33. seabed, 34. sushi

Session 3: Fill in the Blanks

1. The mouth of the river formed an _____ where saltwater and freshwater met.
n. a place where a river meets the sea, typically where the fresh and saltwater mix

2. I love going out for _____ with my friends on Friday nights.
n. a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed

3. The world has become increasingly _____ with the internet and social media playing a significant role in communication and information exchange.
adj. having multiple, complex links or relationships between different people, objects, or systems

4. The series of terrorist attacks _____ the entire nation.
v. to shock or disgust greatly

5. The dense coral reefs on the _____ provide a home for various marine life.
n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms

6. _____ is also necessary to understand history.
n. the ability to share another person's feelings or experiences by imagining that person's situation

7. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager

ANSWERS: 1. estuary, 2. sushi, 3. hyperconnected, 4. horrify, 5. seabed, 6. Empathy, 7. excited

8. The artist made a _____ of different paint textures and colors to help her decide what to use for her next project.
- n.* a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products
9. The _____ trees are known for their ability to survive in saltwater and sandy soil.
- n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
10. The strict deadlines will _____ the team to work efficiently.
- v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
11. She _____ over the tree root.
- v.* to miss a step and fall or nearly fall; to walk unsteadily
12. I must organize my tools on the _____ before starting my project.
- n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
13. The _____ system kept the lawn green and healthy.
- n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
14. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 8. sampler, 9. mangrove, 10. compel, 11. stumbled, 12. workbench, 13. sprinkler, 14. improvisation

15. She had to _____ the coffee beans before making a fresh cup.

- v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

16. The _____ map of the region revealed the rugged terrain we would face on the hike.

- adj.* relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location

17. The infrared _____ helped identify the chemical composition of the sample.

- n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

ANSWERS: 15. grind, 16. topographical, 17. spectrometer