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Vocabulary Builder Reference from...

Joseph Goffman: Whatever happened to acid rain? | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

brook

n. a small stream

synonym : stream, creek, rivulet

(1) music of the **brook**, (2) **brook** trout

A **brook** babbled through the woods.

acidic

adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

synonym : sour, tart, acrid

(1) **acidic** solution, (2) **acidic** taste

The soil in this region is too **acidic** for most crops to grow well.

downpour

n. a heavy rain that often starts suddenly

synonym : rainstorm, deluge, shower

(1) torrential **downpour**, (2) **downpour** of criticism

The concentrated **downpour** was so heavy that it was difficult to see more than a few feet in front of you.

arboreal

adj. relating to or living in trees; characterized by the presence of trees

synonym : woody, tree-dwelling, dendriform

(1) **arboreal** lifestyle, (2) **arboreal** habitat

The spider monkey is an **arboreal** primate found in Central and South America.

urgently

adv. in a way that requires immediate action or attention, especially before anything else, because of being very important

synonym : promptly, immediately, swiftly

(1) tackle the problem **urgently**, (2) **urgently** required
I need to send this email **urgently**.

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.

particulate

adj. consisting of small particles, especially those that are suspended in a fluid or air

synonym : granular, dusty

(1) **particulate** size, (2) **particulate** pollution

Smoke from forest fires is causing an increase in **particulate** matter in the air.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym : side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

eruption

n. an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

synonym : explosion, outburst, burst

(1) **eruption** alert level, (2) emotional **eruption**

The volcanic **eruption** caused widespread destruction and left the area covered in ash.

refinery

n. a facility that is used to process, purify, and refine raw materials such as oil or metal into a more useful or valuable form

synonym: plant, factory, processing plant

(1) hydrogen **refinery**, (2) **refinery** operations

The oil **refinery** was shut down due to safety concerns after a major accident.

roam

v. to move about or travel aimlessly or without a fixed destination; to wander

synonym: wander, ramble, meander

(1) **roam** freely, (2) **roam** the countryside

I love to **roam** around the city and discover new neighborhoods.

corrode

v. to destroy or eat away slowly by chemical action; to gradually wear away, weaken, or disintegrate over time

synonym: erode, rust, eat away

(1) **corrode** steel drums, (2) **corrode** pipes

The saltwater can **corrode** metal over time if not properly maintained.

emit

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.

pollute

v. to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals

synonym: contaminate, corrupt, degrade

(1) **pollute** the air, (2) **pollute** the thread

We should do our best not to **pollute** the environment.

sulfurize

v. to treat or combine with sulfur, often used in the production of various chemicals or metallurgy

(1) **sulfurize** the metal, (2) **sulfurize** the soil

The manufacturer **sulfurizes** the rubber to improve its elasticity and durability.

scrub

v. to clean something thoroughly, typically with a brush and soap or detergent

synonym: clean, wash, sanitize

(1) **scrub** off graffiti, (2) **scrub** dirt from potatoes

She decided to **scrub** the kitchen floor to remove all the dirt and grime.

smokestack

n. a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air

synonym: chimney, stack, flue

(1) **smokestack** emissions, (2) industrial **smokestack**

The **smokestack** on top of the factory released thick clouds of pollution into the air.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

reintroduce

v. to bring back something that has been previously abolished or discontinued

synonym: bring back, restore, reestablish

(1) **reintroduce** species, (2) **reintroduce** capital punishment

The government is planning to **reintroduce** wolves to the national park to restore the balance of the ecosystem.

Session 2: Spelling

1. ac___c taste *adj.* having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
2. rei_____ce capital punishment *v.* to bring back something that has been previously abolished or discontinued
3. co_____e steel drums *v.* to destroy or eat away slowly by chemical action; to gradually wear away, weaken, or disintegrate over time
4. do_____ur of criticism *n.* a heavy rain that often starts suddenly
5. su_____ze the soil *v.* to treat or combine with sulfur, often used in the production of various chemicals or metallurgy
6. 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
7. tackle the problem ur_____ly *adv.* in a way that requires immediate action or attention, especially before anything else, because of being very important
8. emotional er_____on *n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something
9. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

ANSWERS: 1. acidic, 2. reintroduce, 3. corrode, 4. downpour, 5. sulfurize, 6. determinant, 7. urgently, 8. eruption, 9. determinant

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| 10. music of the br__k | <i>n.</i> a small stream |
| 11. r__m freely | <i>v.</i> to move about or travel aimlessly or without a fixed destination; to wander |
| 12. po_____e the air | <i>v.</i> to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals |
| 13. rei_____ce species | <i>v.</i> to bring back something that has been previously abolished or discontinued |
| 14. ar_____al lifestyle | <i>adj.</i> relating to or living in trees; characterized by the presence of trees |
| 15. by_____ct of technology | <i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else |
| 16. r__m the countryside | <i>v.</i> to move about or travel aimlessly or without a fixed destination; to wander |
| 17. hydrogen re_____ry | <i>n.</i> a facility that is used to process, purify, and refine raw materials such as oil or metal into a more useful or valuable form |
| 18. smo_____ck emissions | <i>n.</i> a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air |
| 19. ci_____te an agenda before the meeting | <i>v.</i> to move continuously or freely around a place or closed system |
| 20. ur_____ly required | <i>adv.</i> in a way that requires immediate action or attention, especially before anything else, because of being very important |

ANSWERS: 10. brook, 11. roam, 12. pollute, 13. reintroduce, 14. arboreal, 15. byproduct, 16. roam, 17. refinery, 18. smokestack, 19. circulate, 20. urgently

21. ac___c solution *adj.* having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal
22. par_____te pollution *adj.* consisting of small particles, especially those that are suspended in a fluid or air
23. po_____e the thread *v.* to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals
24. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
25. torrential do_____ur *n.* a heavy rain that often starts suddenly
26. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
27. br__k trout *n.* a small stream
28. re_____ry operations *n.* a facility that is used to process, purify, and refine raw materials such as oil or metal into a more useful or valuable form
29. sc__b dirt from potatoes *v.* to clean something thoroughly, typically with a brush and soap or detergent
30. co_____e pipes *v.* to destroy or eat away slowly by chemical action; to gradually wear away, weaken, or disintegrate over time
31. ar_____al habitat *adj.* relating to or living in trees; characterized by the presence of trees
32. er_____on alert level *n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

ANSWERS: 21. acidic, 22. particulate, 23. pollute, 24. emit, 25. downpour, 26. emit, 27. brook, 28. refinery, 29. scrub, 30. corrode, 31. arboreal, 32. eruption

33. par_____te size *adj.* consisting of small particles, especially those that are suspended in a fluid or air
34. sc__b off graffiti *v.* to clean something thoroughly, typically with a brush and soap or detergent
35. industrial smo_____ck *n.* a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air
36. su_____ze the metal *v.* to treat or combine with sulfur, often used in the production of various chemicals or metallurgy
37. ci_____te a rumor *v.* to move continuously or freely around a place or closed system
38. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 33. particulate, 34. scrub, 35. smokestack, 36. sulfurize, 37. circulate, 38. byproduct

Session 3: Fill in the Blanks

1. The manufacturer _____ the rubber to improve its elasticity and durability.
v. to treat or combine with sulfur, often used in the production of various chemicals or metallurgy

2. The saltwater can _____ metal over time if not properly maintained.
v. to destroy or eat away slowly by chemical action; to gradually wear away, weaken, or disintegrate over time

3. The spider monkey is an _____ primate found in Central and South America.
adj. relating to or living in trees; characterized by the presence of trees

4. I love to _____ around the city and discover new neighborhoods.
v. to move about or travel aimlessly or without a fixed destination; to wander

5. The soil in this region is too _____ for most crops to grow well.
adj. having a pH lower than 7; having characteristics of an acid, such as tasting sour or corroding metal

6. During the unloading, the container box _____ a clicking sound.
v. to give off or send out something such as light, heat, sound, gas, etc.

7. The fan _____ the air in the room quickly.
v. to move continuously or freely around a place or closed system

8. The concentrated _____ was so heavy that it was difficult to see more than a few feet in front of you.
n. a heavy rain that often starts suddenly

ANSWERS: 1. sulfurizes, 2. corrode, 3. arboreal, 4. roam, 5. acidic, 6. emits, 7. circulates, 8. downpour

9. The oil _____ was shut down due to safety concerns after a major accident.
n. a facility that is used to process, purify, and refine raw materials such as oil or metal into a more useful or valuable form
10. Smoke from forest fires is causing an increase in _____ matter in the air.
adj. consisting of small particles, especially those that are suspended in a fluid or air
11. The government is planning to _____ wolves to the national park to restore the balance of the ecosystem.
v. to bring back something that has been previously abolished or discontinued
12. A _____ babbled through the woods.
n. a small stream
13. We should do our best not to _____ the environment.
v. to make an area or substance, such as land, air, water, etc., dirty or harmful to living things by adding waste matter or harmful chemicals
14. The volcanic _____ caused widespread destruction and left the area covered in ash.
n. an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something
15. I need to send this email _____.
adv. in a way that requires immediate action or attention, especially before anything else, because of being very important
16. She decided to _____ the kitchen floor to remove all the dirt and grime.
v. to clean something thoroughly, typically with a brush and soap or detergent

ANSWERS: 9. refinery, 10. particulate, 11. reintroduce, 12. brook, 13. pollute, 14. eruption, 15. urgently, 16. scrub

17. The _____ of the energy production process is a large amount of carbon dioxide emissions.
- n.* a secondary or incidental product produced in the manufacture or synthesis of something else
18. 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
19. The _____ on top of the factory released thick clouds of pollution into the air.
- n.* a vertical pipe or chimney, usually of brick or metal, through which smoke or exhaust gases from a fire or engine are discharged into the air

ANSWERS: 17. byproduct, 18. determinant, 19. smokestack