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Vocabulary Builder Reference from...

Solomon Goldstein-Rose: How much clean electricity do we really need? | TED Talk

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

Advanced Words Only

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Session 1: Word List

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

mindset

n. the established set of attitudes or fixed ideas held by someone

synonym: attitude, ethos, mentality

(1) flexible **mindset**, (2) the **mindset** in an education system

Countries whose goal is economic development often focus on fostering an entrepreneurial **mindset** in each individual.

hydro

n. a prefix denoting water or relating to water, usually used in scientific or technical terminology

synonym: water, aqua, liquid

(1) **hydro** power, (2) **hydro** turbine

The **hydro** plant generates electricity by harnessing the power of water.

unreliable

adj. not able to be trusted or depended on
synonym : inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information
By incorrect assumption, statistics can be notoriously **unreliable**.

industrialize

v. to organize the production of something into an industry
synonym : motorize

(1) **industrialize** service, (2) **industrialized** textile production

The nations of South East Asia will quickly **industrialize** and catch up with the West.

debatable

adj. open to discussion or argument; capable of being disputed or doubted

synonym : questionable, uncertain, open to discussion

(1) the validity of the theory is **debatable**, (2) **debatable** topic

Whether or not extraterrestrial life exists is still **debatable** among scientists.

long-range

adj. relating to or extending over a long distance, period of time, or range of possibilities

synonym : far-reaching, extended, distant

(1) **long-range** radar, (2) **long-range** weather forecast

The military uses **long-range** missiles to hit targets from far away.

biofuel

n. a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels

synonym : renewable energy, green fuel, alternative fuel

(1) **biofuel** production, (2) **biofuel** technology

The airplane was powered by a **biofuel** made from plant-based materials.

deforest

v. to clear an area of forest or trees

synonym : clear-cut, strip, denude

(1) **deforest** a mountain, (2) **deforest** millions of acres

The company planned to **deforest** a large rainforest area to make way for a new plantation.

bioenergy

n. energy derived from biomass materials, such as plants or organic waste, that can be converted into a usable form of heat, electricity, or fuel

synonym : green energy

(1) **bioenergy** potential, (2) **bioenergy** plant

Bioenergy production can be achieved through various methods, such as anaerobic digestion and combustion.

imperfectly

adv. in a faulty or incomplete way

synonym : amiss, insufficiently, clumsily

(1) **imperfectly** developed, (2) **imperfectly** known disease

He created an **imperfectly** shaped torso.

synthesize

v. to combine a substance to make a more complex product or compound

synonym : incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

ammonia

n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives

(1) **ammonia** water, (2) inhale **ammonia** fumes

The advent of **ammonia** fertilizers markedly increased agricultural productivity.

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.

desalination

n. the process of removing salt, especially from seawater
(1) shut down a **desalination** plant, (2) water **desalination**
He worked on improving the equipment using the freeze-**desalination** method.

decarbonize

v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
synonym : decoke, decarburise, decarburize
(1) **decarbonize** their manufacturing process,
(2) **decarbonize** its energy system
We have to seek methods to **decarbonize** its fossil fuel economy.

tinker

v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
synonym : fiddle, play, fix
(1) **tinker** with the bill, (2) **tinker** with the settings
He spent the afternoon **tinkering** with his car engine.

unhelpful

adj. not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
synonym : useless, ineffective, detrimental
(1) **unhelpful** comments, (2) **unhelpful** for people
His **unhelpful** attitude made it difficult for the team to complete the project on time.

geothermal

adj. relating to or produced by the internal heat of the earth; often used to refer to energy produced by tapping into the natural heat of the earth
synonym : underground, thermal, subterranean
(1) **geothermal** activity, (2) **geothermal** drilling
The town is exploring using **geothermal** energy to power its

homes and buildings.

wary

adj. cautious or distrustful, especially because of a previous bad experience

synonym: cautious, suspicious, leery

(1) a **wary** statesman, (2) **wary** of marriage

She was **wary** of meeting new people because of past experiences.

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.

Session 2: Spelling

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|--------------------------------------|---|
| 1. prove unr_____le | <i>adj.</i> not able to be trusted or depended on |
| 2. syn_____ze information | <i>v.</i> to combine a substance to make a more complex product or compound |
| 3. am_____a water | <i>n.</i> a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives |
| 4. ind_____ize service | <i>v.</i> to organize the production of something into an industry |
| 5. imp_____ly known disease | <i>adv.</i> in a faulty or incomplete way |
| 6. un_____ul for people | <i>adj.</i> not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal |
| 7. el_____fy a manufacturing process | <i>v.</i> to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something |
| 8. syn_____ze molecules | <i>v.</i> to combine a substance to make a more complex product or compound |
| 9. geo_____al drilling | <i>adj.</i> relating to or produced by the internal heat of the earth; often used to refer to energy produced by tapping into the natural heat of the earth |
| 10. w__y of marriage | <i>adj.</i> cautious or distrustful, especially because of a previous bad experience |

ANSWERS: 1. unreliable, 2. synthesize, 3. ammonia, 4. industrialize, 5. imperfectly, 6. unhelpful, 7. electrify, 8. synthesize, 9. geothermal, 10. wary

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| 11. the mi____t in an education system | <i>n.</i> | the established set of attitudes or fixed ideas held by someone |
| 12. hy__o power | <i>n.</i> | a prefix denoting water or relating to water, usually used in scientific or technical terminology |
| 13. 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 |
| 14. bi_____gy potential | <i>n.</i> | energy derived from biomass materials, such as plants or organic waste, that can be converted into a usable form of heat, electricity, or fuel |
| 15. ti___r with the bill | <i>v.</i> | to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way |
| 16. bi_____l technology | <i>n.</i> | a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels |
| 17. dec_____ze its energy system | <i>v.</i> | to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy |
| 18. water des_____ion | <i>n.</i> | the process of removing salt, especially from seawater |
| 19. po_____e the thread | <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 |

ANSWERS: 11. mindset, 12. hydro, 13. pollute, 14. bioenergy, 15. tinker, 16. biofuel, 17. decarbonize, 18. desalination, 19. pollute

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| 20. unr_____le source of information | <i>adj.</i> not able to be trusted or depended on |
| 21. hy__o turbine | <i>n.</i> a prefix denoting water or relating to water, usually used in scientific or technical terminology |
| 22. de_____le topic | <i>adj.</i> open to discussion or argument; capable of being disputed or doubted |
| 23. a w__y statesman | <i>adj.</i> cautious or distrustful, especially because of a previous bad experience |
| 24. se_____er myself from the world | <i>v.</i> to take temporary possession of someone's property until a debt is paid. |
| 25. ind_____ized textile production | <i>v.</i> to organize the production of something into an industry |
| 26. se_____er ten percent of the annual carbon emissions | <i>v.</i> to take temporary possession of someone's property until a debt is paid. |
| 27. el_____fy the audience | <i>v.</i> to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something |
| 28. bi_____gy plant | <i>n.</i> energy derived from biomass materials, such as plants or organic waste, that can be converted into a usable form of heat, electricity, or fuel |
| 29. ti___r with the settings | <i>v.</i> to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way |
| 30. the validity of the theory is de_____le | <i>adj.</i> open to discussion or argument; capable of being disputed or doubted |
| 31. flexible mi_____t | <i>n.</i> the established set of attitudes or fixed ideas held by someone |

ANSWERS: 20. unreliable, 21. hydro, 22. debatable, 23. wary, 24. sequester, 25. industrialize, 26. sequester, 27. electrify, 28. bioenergy, 29. tinker, 30. debatable, 31. mindset

32. geo_____al activity *adj.* relating to or produced by the internal heat of the earth; often used to refer to energy produced by tapping into the natural heat of the earth
33. un_____ul comments *adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
34. imp_____ly developed *adv.* in a faulty or incomplete way
35. de_____st a mountain *v.* to clear an area of forest or trees
36. bi_____l production *n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
37. lon_____ge radar *adj.* relating to or extending over a long distance, period of time, or range of possibilities
38. lon_____ge weather forecast *adj.* relating to or extending over a long distance, period of time, or range of possibilities
39. inhale am_____a fumes *n.* a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
40. dec_____ze their manufacturing process *v.* to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
41. de_____st millions of acres *v.* to clear an area of forest or trees

ANSWERS: 32. geothermal, 33. unhelpful, 34. imperfectly, 35. deforest, 36. biofuel, 37. long-range, 38. long-range, 39. ammonia, 40. decarbonize, 41. deforest

42. shut down a des_____ion plant *n.* the process of removing salt, especially from seawater

ANSWERS: 42. desalination

Session 3: Fill in the Blanks

1. She was _____ of meeting new people because of past experiences.
adj. cautious or distrustful, especially because of a previous bad experience
2. _____ production can be achieved through various methods, such as anaerobic digestion and combustion.
n. energy derived from biomass materials, such as plants or organic waste, that can be converted into a usable form of heat, electricity, or fuel
3. He spent the afternoon _____ with his car engine.
v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
4. The company planned to _____ a large rainforest area to make way for a new plantation.
v. to clear an area of forest or trees
5. The nations of South East Asia will quickly _____ and catch up with the West.
v. to organize the production of something into an industry
6. The advent of _____ fertilizers markedly increased agricultural productivity.
n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
7. He approved their requests to _____ the jury.
v. to take temporary possession of someone's property until a debt is paid.

ANSWERS: 1. wary, 2. Bioenergy, 3. tinkering, 4. deforest, 5. industrialize, 6. ammonia, 7. sequester

8. By incorrect assumption, statistics can be notoriously _____.
- adj.* not able to be trusted or depended on
9. His _____ attitude made it difficult for the team to complete the project on time.
- adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
10. The spider can _____ multiple different silk proteins.
- v.* to combine a substance to make a more complex product or compound
11. The town is exploring using _____ energy to power its homes and buildings.
- adj.* relating to or produced by the internal heat of the earth; often used to refer to energy produced by tapping into the natural heat of the earth
12. The airplane was powered by a _____ made from plant-based materials.
- n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
13. Whether or not extraterrestrial life exists is still _____ among scientists.
- adj.* open to discussion or argument; capable of being disputed or doubted
14. The product developed through years of research continues to _____ the market.
- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
15. 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

ANSWERS: 8. unreliable, 9. unhelpful, 10. synthesize, 11. geothermal, 12. biofuel, 13. debatable, 14. electrify, 15. pollute

16. We have to seek methods to _____ its fossil fuel economy.
v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
17. The military uses _____ missiles to hit targets from far away.
adj. relating to or extending over a long distance, period of time, or range of possibilities
18. The _____ plant generates electricity by harnessing the power of water.
n. a prefix denoting water or relating to water, usually used in scientific or technical terminology
19. He worked on improving the equipment using the freeze-_____ method.
n. the process of removing salt, especially from seawater
20. Countries whose goal is economic development often focus on fostering an entrepreneurial _____ in each individual.
n. the established set of attitudes or fixed ideas held by someone
21. He created an _____ shaped torso.
adv. in a faulty or incomplete way

ANSWERS: 16. decarbonize, 17. long-range, 18. hydro, 19. desalination, 20. mindset, 21. imperfectly