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Vocabulary Builder Reference from...

Danny Hillis: Should we create a solar shade to cool the earth? | TED Talk

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

Advanced Words Only

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Session 1: Word List

provocation

n. action or speech that intentionally causes someone to become angry, irritated, or frustrated; a reason or motive for something, often negative or undesired

synonym: agitation, incitement, stimulus

(1) **provocation** tactics, (2) verbal **provocation**

The politician's speech was seen as a **provocation** to the opposition party.

thermostat

n. a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building

synonym: thermoregulator, climate control

(1) **thermostat** settings, (2) smart **thermostat**

The digital **thermostat** has a programmable feature, and it can be controlled through your smartphone.

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.

misunderstand

v. to interpret or understand something in the wrong way

synonym: misinterpret, misperceive, misapprehend

(1) **misunderstand** each other, (2) **misunderstand** entirely about her

You should not **misunderstand** the meaning of freedom.

geoengineering

n. the study of finding ways to change the Earth's climate system, primarily to reduce global warming; deliberate and large-scale intervention in the Earth's climate system

(1) **geoengineering** technology, (2) **geoengineering** schemes

It is unclear what all of the potential consequences of **geoengineering** could be.

contrail

n. (short for "condensation trail") a visible trail of condensed water vapor or ice crystals that form in the wake of an aircraft, rocket, or another object as it moves through the air

synonym: vapor trail, condensation trail

(1) **contrail** formation, (2) persistent **contrail**

The increase in air traffic has led to increased **contrails** in the atmosphere.

parasol

n. a lightweight and often decorative umbrella, primarily used to protect against sun or rain

synonym: umbrella, sunshade

(1) hand-held **parasol**, (2) decorative **parasol**

She shielded herself from the sun with a colorful **parasol** while lounging at the beach.

fizz

v. to make a hissing or bubbling sound, often accompanied by the release of gas or effervescence; to be lively, exciting, or effervescent in character or atmosphere; (noun) the sound, process, or result of something producing small bubbles

synonym: fizzle, effervesce, bubble

(1) **fizz** up after the speech, (2) **fizz** with life

The soda began to **fizz** when I opened the can, spilling over

the top and onto my shirt.

chalk

n. a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards

synonym: white rock, limestone, gypsum

(1) a piece of **chalk**, (2) **chalk** on a blackboard

The kids used colored **chalk** to create a mural on the pavement.

stratosphere

n. the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer

synonym: upper atmosphere, ozone layer

(1) **stratosphere** layer, (2) **stratosphere** ozone

The ozone layer, which protects us from harmful UV radiation, is in the **stratosphere**.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym: disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

rainwater

n. water that falls from the clouds in the form of rain and is collected

synonym: precipitation, drizzle, showers

(1) **rainwater** acidity, (2) **rainwater** drainage

The company installed a **rainwater** harvesting system to collect and reuse it for manufacturing.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

optimist

n. a person who tends to expect the best in all things and to be hopeful and confident about the future

synonym: positive thinker, dreamer, idealist

(1) **optimist** by nature, (2) excessive **optimist**

She is a confident **optimist** who always looks on the bright side.

Session 2: Spelling

1. co_____il formation *n.* (short for "condensation trail") a visible trail of condensed water vapor or ice crystals that form in the wake of an aircraft, rocket, or another object as it moves through the air
2. str_____ere layer *n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
3. ex_____e rebellion *v.* to make someone feel suddenly enthusiastic or eager
4. f__z up after the speech *v.* to make a hissing or bubbling sound, often accompanied by the release of gas or effervescence; to be lively, exciting, or effervescent in character or atmosphere; (noun) the sound, process, or result of something producing small bubbles
5. excessive op_____st *n.* a person who tends to expect the best in all things and to be hopeful and confident about the future
6. di_____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
7. persistent co_____il *n.* (short for "condensation trail") a visible trail of condensed water vapor or ice crystals that form in the wake of an aircraft, rocket, or another object as it moves through the air

ANSWERS: 1. contrail, 2. stratosphere, 3. excite, 4. fizz, 5. optimist, 6. dissolve, 7. contrail

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|---------------------------|---|
| 8. pro_____on tactics | <i>n.</i> action or speech that intentionally causes someone to become angry, irritated, or frustrated; a reason or motive for something, often negative or undesired |
| 9. decorative pa_____l | <i>n.</i> a lightweight and often decorative umbrella, primarily used to protect against sun or rain |
| 10. verbal pro_____on | <i>n.</i> action or speech that intentionally causes someone to become angry, irritated, or frustrated; a reason or motive for something, often negative or undesired |
| 11. ra_____er drainage | <i>n.</i> water that falls from the clouds in the form of rain and is collected |
| 12. op_____st by nature | <i>n.</i> a person who tends to expect the best in all things and to be hopeful and confident about the future |
| 13. ex___e the crowd | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 14. a piece of ch__k | <i>n.</i> a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards |
| 15. ch__k on a blackboard | <i>n.</i> a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards |
| 16. geo_____ing schemes | <i>n.</i> the study of finding ways to change the Earth's climate system, primarily to reduce global warming; deliberate and large-scale intervention in the Earth's climate system |

ANSWERS: 8. provocation, 9. parasol, 10. provocation, 11. rainwater, 12. optimist, 13. excite, 14. chalk, 15. chalk, 16. geoengineering

17. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
18. hand-held pa_____l *n.* a lightweight and often decorative umbrella, primarily used to protect against sun or rain
19. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
20. str_____ere ozone *n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
21. mis_____and each other *v.* to interpret or understand something in the wrong way
22. mis_____and entirely about her *v.* to interpret or understand something in the wrong way
23. the_____at settings *n.* a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building
24. ra_____er acidity *n.* water that falls from the clouds in the form of rain and is collected
25. f__z with life *v.* to make a hissing or bubbling sound, often accompanied by the release of gas or effervescence; to be lively, exciting, or effervescent in character or atmosphere; (noun) the sound, process, or result of something producing small bubbles

ANSWERS: 17. dissolve, 18. parasol, 19. visualize, 20. stratosphere, 21. misunderstand, 22. misunderstand, 23. thermostat, 24. rainwater, 25. fizz

26. geo_____ing technology *n.* the study of finding ways to change the Earth's climate system, primarily to reduce global warming; deliberate and large-scale intervention in the Earth's climate system
27. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
28. smart the_____at *n.* a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building

ANSWERS: 26. geoengineering, 27. visualize, 28. thermostat

Session 3: Fill in the Blanks

1. The soda began to _____ when I opened the can, spilling over the top and onto my shirt.
 - v. to make a hissing or bubbling sound, often accompanied by the release of gas or effervescence; to be lively, exciting, or effervescent in character or atmosphere; (noun) the sound, process, or result of something producing small bubbles

2. The digital _____ has a programmable feature, and it can be controlled through your smartphone.
 - n. a device that automatically regulates temperature by controlling the heating or cooling system based on the temperature in a room or building

3. The company installed a _____ harvesting system to collect and reuse it for manufacturing.
 - n. water that falls from the clouds in the form of rain and is collected

4. You should not _____ the meaning of freedom.
 - v. to interpret or understand something in the wrong way

5. The politician's speech was seen as a _____ to the opposition party.
 - n. action or speech that intentionally causes someone to become angry, irritated, or frustrated; a reason or motive for something, often negative or undesired

6. The political party _____ after much internal fighting.
 - v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

7. She is a confident _____ who always looks on the bright side.
 - n. a person who tends to expect the best in all things and to be hopeful and confident about the future

ANSWERS: 1. fizz, 2. thermostat, 3. rainwater, 4. misunderstand, 5. provocation, 6. dissolved, 7. optimist

8. The increase in air traffic has led to increased _____ in the atmosphere.
- n.* (short for "condensation trail") a visible trail of condensed water vapor or ice crystals that form in the wake of an aircraft, rocket, or another object as it moves through the air
9. She tried to _____ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
10. It is unclear what all of the potential consequences of _____ could be.
- n.* the study of finding ways to change the Earth's climate system, primarily to reduce global warming; deliberate and large-scale intervention in the Earth's climate system
11. She shielded herself from the sun with a colorful _____ while lounging at the beach.
- n.* a lightweight and often decorative umbrella, primarily used to protect against sun or rain
12. The ozone layer, which protects us from harmful UV radiation, is in the _____.
- n.* the second layer of the Earth's atmosphere, extending from about 7 to 50 kilometers above the Earth's surface, containing the ozone layer
13. The kids used colored _____ to create a mural on the pavement.
- n.* a soft, white, porous sedimentary rock composed of calcium carbonate, often used for drawing or writing on surfaces such as blackboards
14. The news of her promotion _____ her.
- v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 8. contrails, 9. visualize, 10. geoengineering, 11. parasol, 12. stratosphere, 13. chalk, 14. excited

ANSWERS: