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Rachel Kyte: Sustainable cooling that doesn't warm the planet | TED Talk

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

Advanced Words Only

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Session 1: Word List

humid

adj. having a high amount of moisture or water vapor in the air; damp; muggy

synonym: damp, muggy, moist

(1) **humid** climate, (2) uncomfortably **humid**

The air was so **humid** that my clothes felt damp.

hover

v. to stay in one place in the air

synonym: hang, float over, drift

(1) **hover** between life and death, (2) **hover** around the table

Two birds were **hovering** overhead.

centigrade

n. a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale

(1) **centigrade** scale, (2) **centigrade** thermometer

The temperature reached a peak of 35 degrees **centigrade**.

bungalow

n. a small, single-story house, often with a front porch or veranda that is typically made of wood or adobe; a type of dwelling that is popular in warm climates, particularly in locations near water

synonym

: cottage, cabin, villa

(1) beach **bungalow**, (2) wooden **bungalow**

The cozy **bungalow** nestled in the forest was the perfect weekend getaway.

inefficient

adj. lacking the ability or skill and not making the best use of time, money, energy, etc.

synonym: ineffective, counterproductive, inadequate

(1) **inefficient** use, (2) **inefficient** management

The system is still so **inefficient** that it is useless.

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.

refrigerant

n. a substance used to transfer heat from one place to another in a refrigeration (the act of making or keeping things cold) system, usually in the form of a liquid or gas

synonym: coolant, refrigeration gas

(1) **refrigerant** gas, (2) **refrigerant** leak

The **refrigerant** in the air conditioning system helps to cool the room.

fluorocarbon

n. any of a group of synthetic organic compounds containing carbon, fluorine, and sometimes other elements used as refrigerants, solvents, propellants, and lubricants

(1) **fluorocarbon** waste, (2) **fluorocarbon** aerosol

Fluorocarbon gases are used in some medical applications, such as artificial respiration.

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.

leafy

adj. covered with or having many leaves; of or relating to plants that produce many leaves, especially those that are broad and flat

synonym : verdant, leaf-covered, foliated

(1) **leafy** canopy, (2) **leafy** suburbs

The neighborhood is known for its **leafy** trees and verdant gardens.

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.

prioritize

v. to assign a higher level of importance to something compared to other things

synonym : rank, order, arrange

(1) **prioritize** tasks, (2) **prioritize** people over cars

The organization **prioritized** the needs of the community in its decision-making.

hermetic

adj. completely sealed or airtight, often used to describe a container or space; having a mysterious or hard-to-understand quality, often used to describe a text or idea that is difficult to interpret or decode

synonym : airtight, sealed, closed

(1) **hermetic** philosophy, (2) **hermetic** environment

The scientists used a **hermetic** seal to prevent air from

entering the laboratory experiment.

rattle

v. to make or cause to make short, successive, sharp, and loud sounds

synonym: jolt, shake, babble

(1) **rattle** along a road, (2) **rattle** and bang at the door

The vast earthquake caused the house to **rattle**.

insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

synonym: isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity

We had our bedroom **insulated** before winter came.

groundwater

n. water that is present beneath the surface of the ground, especially in soil or in pores and crevices in rock

synonym: aquifer, well water, underground water

(1) **groundwater** supply, (2) contaminated **groundwater**

The town's main source of water is natural **groundwater**.

roofing

n. the material used in the construction of roofs

(1) **roofing** material, (2) a **roofing** tile

Roofing tiles were the standard for a house of substantial size.

synergy

n. the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements

synonym: cooperation, collaboration, partnership

(1) **synergy** collaboration, (2) **synergy** between businesses

The new software program was designed to increase productivity by promoting employee **synergy**.

compress

v. to press or squeeze together to make something take up less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

medicinal

adj. of or relating to the treatment or cure of disease

synonym : curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

drone

n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym : hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

portray

v. to depict or describe someone or something in a painting, film, book, or other artistic work

synonym : depict, describe, illustrate

(1) **portray** feelings in words, (2) accurately **portray** the condition

We often **portray** political problems as religious issues.

beak

n. the hard and pointed or curved mouth of a bird

synonym : nib, pecker, snout

(1) sharp **beak**, (2) a tip of the **beak**

The bird's **beak** evolves according to the type of prey it can take on the area.

Session 2: Spelling

1. the speaker's dr__e *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
2. ho__r between life and death *v.* to stay in one place in the air
3. le__y suburbs *adj.* covered with or having many leaves; of or relating to plants that produce many leaves, especially those that are broad and flat
4. po_____e the air *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
5. sy_____y collaboration *n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
6. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
7. ho__r around the table *v.* to stay in one place in the air
8. cen_____de scale *n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale
9. sharp b__k *n.* the hard and pointed or curved mouse of a bird

ANSWERS: 1. drone, 2. hover, 3. leafy, 4. pollute, 5. synergy, 6. medicinal, 7. hover, 8. centigrade, 9. beak

10. in_____te the room from sound *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
11. he_____ic philosophy *adj.* completely sealed or airtight, often used to describe a container or space; having a mysterious or hard-to-understand quality, often used to describe a text or idea that is difficult to interpret or decode
12. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
13. he_____ic environment *adj.* completely sealed or airtight, often used to describe a container or space; having a mysterious or hard-to-understand quality, often used to describe a text or idea that is difficult to interpret or decode
14. ref_____nt gas *n.* a substance used to transfer heat from one place to another in a refrigeration (the act of making or keeping things cold) system, usually in the form of a liquid or gas
15. gro_____er supply *n.* water that is present beneath the surface of the ground, especially in soil or in pores and crevices in rock
16. uncomfortably hu__d *adj.* having a high amount of moisture or water vapor in the air; damp; muggy
17. co_____ss the chest *v.* to press or squeeze together to make something take up less space

ANSWERS: 10. insulate, 11. hermetic, 12. electrify, 13. hermetic, 14. refrigerant, 15. groundwater, 16. humid, 17. compress

18. beach bu____ow *n.* a small, single-story house, often with a front porch or veranda that is typically made of wood or adobe; a type of dwelling that is popular in warm climates, particularly in locations near water
19. ref_____nt leak *n.* a substance used to transfer heat from one place to another in a refrigeration (the act of making or keeping things cold) system, usually in the form of a liquid or gas
20. traditional me_____al *adj.* of or relating to the treatment or cure of disease
21. pri_____ze tasks *v.* to assign a higher level of importance to something compared to other things
22. le__y canopy *adj.* covered with or having many leaves; of or relating to plants that produce many leaves, especially those that are broad and flat
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. a tip of the b__k *n.* the hard and pointed or curved mouse of a bird
25. geo_____ing schemes *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

ANSWERS: 18. bungalow, 19. refrigerant, 20. medicinal, 21. prioritize, 22. leafy, 23. pollute, 24. beak, 25. geoengineering

26. flu_____bon aerosol *n.* any of a group of synthetic organic compounds containing carbon, fluorine, and sometimes other elements used as refrigerants, solvents, propellants, and lubricants
27. wooden bu_____ow *n.* a small, single-story house, often with a front porch or veranda that is typically made of wood or adobe; a type of dwelling that is popular in warm climates, particularly in locations near water
28. po_____y feelings in words *v.* to depict or describe someone or something in a painting, film, book, or other artistic work
29. ine_____nt management *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
30. cen_____de thermometer *n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale
31. a ro_____g tile *n.* the material used in the construction of roofs
32. 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
33. in_____te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

ANSWERS: 26. fluorocarbon, 27. bungalow, 28. portray, 29. inefficient, 30. centigrade, 31. roofing, 32. geoengineering, 33. insulate

34. dr__e flight *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
35. flu_____bon waste *n.* any of a group of synthetic organic compounds containing carbon, fluorine, and sometimes other elements used as refrigerants, solvents, propellants, and lubricants
36. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
37. co_____ss gas *v.* to press or squeeze together to make something take up less space
38. sy_____y between businesses *n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
39. contaminated gro_____er *n.* water that is present beneath the surface of the ground, especially in soil or in pores and crevices in rock
40. ro_____g material *n.* the material used in the construction of roofs
41. ine_____nt use *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
42. ra_____e and bang at the door *v.* to make or cause to make short, successive, sharp, and loud sounds

ANSWERS: 34. drone, 35. fluorocarbon, 36. electrify, 37. compress, 38. synergy, 39. groundwater, 40. roofing, 41. inefficient, 42. rattle

43. ra___e along a road *v.* to make or cause to make short, successive, sharp, and loud sounds
44. pri_____ze people over cars *v.* to assign a higher level of importance to something compared to other things
45. accurately po_____y the condition *v.* to depict or describe someone or something in a painting, film, book, or other artistic work
46. hu__d climate *adj.* having a high amount of moisture or water vapor in the air; damp; muggy

ANSWERS: 43. rattle, 44. prioritize, 45. portray, 46. humid

Session 3: Fill in the Blanks

1. _____ gases are used in some medical applications, such as artificial respiration.
 - n.* any of a group of synthetic organic compounds containing carbon, fluorine, and sometimes other elements used as refrigerants, solvents, propellants, and lubricants

2. The bird's _____ evolves according to the type of prey it can take on the area.
 - n.* the hard and pointed or curved mouth of a bird

3. We had our bedroom _____ before winter came.
 - v.* to protect something by interposing material that prevents heat, noise, electricity, etc.

4. 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

5. We often _____ political problems as religious issues.
 - v.* to depict or describe someone or something in a painting, film, book, or other artistic work

6. The air was so _____ that my clothes felt damp.
 - adj.* having a high amount of moisture or water vapor in the air; damp; muggy

7. The neighborhood is known for its _____ trees and verdant gardens.
 - adj.* covered with or having many leaves; of or relating to plants that produce many leaves, especially those that are broad and flat

ANSWERS: 1. Fluorocarbon, 2. beak, 3. insulated, 4. geoengineering, 5. portray, 6. humid, 7. leafy

8. The system is still so _____ that it is useless.

adj. lacking the ability or skill and not making the best use of time, money, energy, etc.

9. The organization _____ the needs of the community in its decision-making.

v. to assign a higher level of importance to something compared to other things

10. 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

11. The vast earthquake caused the house to _____.

v. to make or cause to make short, successive, sharp, and loud sounds

12. Two birds were _____ overhead.

v. to stay in one place in the air

13. The scientists used a _____ seal to prevent air from entering the laboratory experiment.

adj. completely sealed or airtight, often used to describe a container or space; having a mysterious or hard-to-understand quality, often used to describe a text or idea that is difficult to interpret or decode

14. The town's main source of water is natural _____.

n. water that is present beneath the surface of the ground, especially in soil or in pores and crevices in rock

15. _____ tiles were the standard for a house of substantial size.

n. the material used in the construction of roofs

ANSWERS: 8. inefficient, 9. prioritized, 10. pollute, 11. rattle, 12. hovering, 13. hermetic, 14. groundwater, 15. Roofing

16. The cozy _____ nestled in the forest was the perfect weekend getaway.
- n.* a small, single-story house, often with a front porch or veranda that is typically made of wood or adobe; a type of dwelling that is popular in warm climates, particularly in locations near water
17. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
18. He heard a _____ of sirens roar from the neighboring town.
- n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
19. She _____ the files into a single ZIP archive to save space on her computer.
- v.* to press or squeeze together to make something take up less space
20. The _____ in the air conditioning system helps to cool the room.
- n.* a substance used to transfer heat from one place to another in a refrigeration (the act of making or keeping things cold) system, usually in the form of a liquid or gas
21. The new software program was designed to increase productivity by promoting employee _____.
- n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
22. 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

ANSWERS: 16. bungalow, 17. medicinal, 18. drone, 19. compressed, 20. refrigerant, 21. synergy, 22. electrify

23. The temperature reached a peak of 35 degrees _____.

- n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale

ANSWERS: 23. centigrade