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Jennifer Wilcox: A new way to remove CO2 from the atmosphere | TED Talk

https://www.ted.com/talks/jennifer_wilcox_a_new_way_to_remove_co2_from_the_atmosphere

Advanced Words Only

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Session 1: Word List

seawater

n. water from the sea or ocean, typically containing salt and various other dissolved minerals

synonym : saltwater, brine, ocean water

(1) **seawater** pollution, (2) **seawater** bacteria

The desalination plant turned **seawater** into drinking water through a complex process.

ingenuity

n. the quality of inventing things or solving problems in clever new ways

synonym : creativity, invention, originality

(1) the infinite **ingenuity** of man, (2) abound in **ingenuity**

Creativity and **ingenuity** are often brought about by extreme concentration.

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.

recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

synonym : reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

dilute

v. to make a substance less concentrated by adding a liquid or another substance to it

synonym: weaken, thin, reduce

(1) **dilute** acid with water, (2) **dilute** a great idea

She **diluted** the concentrated juice with water.

liquefy

v. to turn a solid substance into a liquid state; to make something fluid or easier to flow

synonym: melt, dissolve, thaw

(1) **liquefy** the soil, (2) **liquefy** cement

The butter began to **liquefy** during the heat wave and drip off the countertop.

regenerate

v. to improve or renew an area, institution, system, etc., especially by making it more active or successful

synonym: renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

dictate

v. to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded

synonym: read out, prescribe, order

(1) **dictate** a letter to secretary, (2) **dictate** to the associate

The allies **dictated** the terms of surrender to the country.

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.

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.

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.

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

arable

adj. relating to land that is suitable for growing crops; capable of being plowed and used for agriculture

synonym: cultivable, tillable, farmable

(1) **arable** soil, (2) **arable** farming

The **arable** land in the valley was ideal for growing wheat and corn.

farmland

n. land used for farming or agricultural purposes

synonym: agriculture, cropland

(1) **farmland** acreage, (2) fertile **farmland**

The government is encouraging farmers to expand their **farmland** to increase food production.

disillusion

v. to disappoint someone or something because you found that something you believed in or hoped for was not as it seemed

synonym : disenchant, disappoint, embitter

(1) **disillusion** the young, (2) **disillusion** him about reality
She felt **disillusioned** with the management and decided to leave.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark
The phone rang at the most **opportune** time.

downside

n. the negative aspects or consequences of something; the potential for loss or failure

synonym : drawback, negative, disadvantage

(1) major **downside**, (2) **downside** of globalization

The **downside** of the new policy was that it would be more expensive for customers.

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.

cling

v. to hold onto something tightly; to be closely attached to someone or something

synonym : stick, adhere, attach

(1) **cling** onto power, (2) **cling** tightly to the skin

He **clings** to the hope that he will find a job soon.

tempt

v. to make someone want to do or have something, especially something that is unnecessary or wrong

synonym: entice, lure, attract

(1) **tempt** young people, (2) **tempt** the taste buds

Though he was evil, he never **tempted** his friends into wrongdoing.

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**.

amaze

v. to fill with wonder, surprise, or admiration

synonym: astound, surprise, stagger

(1) **amaze** and entertain visitors, (2) **amaze** everyone

The magician's tricks **amazed** the audience.

lifesaving

n. the act or process of rescuing someone else's life, especially from drowning

(1) **lifesaving** efforts, (2) **lifesaving** device

The patient needs a **lifesaving** transplant operation.

glacier

n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

synonym: iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

cherish

v. to hold someone or something dear; to feel or show affection for someone or something

synonym: treasure, value, hold dear

(1) **cherish** a stuffed animal, (2) **cherish** relationships

She **cherished** the memories of her childhood.

Session 2: Spelling

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|---------------------------------|---|
| 1. jazz imp_____ion | <i>n.</i> the act of making something up on the spot or creating or performing something without preparation |
| 2. am__e and entertain visitors | <i>v.</i> to fill with wonder, surprise, or admiration |
| 3. am__e everyone | <i>v.</i> to fill with wonder, surprise, or admiration |
| 4. dis_____on the young | <i>v.</i> to disappoint someone or something because you found that something you believed in or hoped for was not as it seemed |
| 5. di_____ve the sugar | <i>v.</i> to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss |
| 6. a reg_____te sinner | <i>v.</i> to improve or renew an area, institution, system, etc., especially by making it more active or successful |
| 7. do_____de of globalization | <i>n.</i> the negative aspects or consequences of something; the potential for loss or failure |
| 8. imp_____ion on stage | <i>n.</i> the act of making something up on the spot or creating or performing something without preparation |
| 9. rai_____st destruction | <i>n.</i> a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall |

ANSWERS: 1. improvisation, 2. amaze, 3. amaze, 4. disillusion, 5. dissolve, 6. regenerate, 7. downside, 8. improvisation, 9. rainforest

10. major do_____de *n.* the negative aspects or consequences of something; the potential for loss or failure
11. cl__g tightly to the skin *v.* to hold onto something tightly; to be closely attached to someone or something
12. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
13. 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
14. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
15. 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
16. geo_____al drilling *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
17. li_____y cement *v.* to turn a solid substance into a liquid state; to make something fluid or easier to flow
18. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 10. downside, 11. cling, 12. rainforest, 13. geothermal, 14. opportune, 15. electrify, 16. geothermal, 17. liquefy, 18. opportune

19. ch____h a stuffed animal *v.* to hold someone or something dear; to feel or show affection for someone or something
20. ar____e farming *adj.* relating to land that is suitable for growing crops; capable of being plowed and used for agriculture
21. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
22. se____er bacteria *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
23. fertile fa____nd *n.* land used for farming or agricultural purposes
24. 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
25. ar____e soil *adj.* relating to land that is suitable for growing crops; capable of being plowed and used for agriculture
26. se____er pollution *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
27. gl____r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
28. te__t the taste buds *v.* to make someone want to do or have something, especially something that is unnecessary or wrong
29. ch____h relationships *v.* to hold someone or something dear; to feel or show affection for someone or something

ANSWERS: 19. cherish, 20. arable, 21. emit, 22. seawater, 23. farmland, 24. dissolve, 25. arable, 26. seawater, 27. glacier, 28. tempt, 29. cherish

30. lif_____ng efforts *n.* the act or process of rescuing someone else's life, especially from drowning
31. cl__g onto power *v.* to hold onto something tightly; to be closely attached to someone or something
32. reg_____te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
33. di___e a great idea *v.* to make a substance less concentrated by adding a liquid or another substance to it
34. te__t young people *v.* to make someone want to do or have something, especially something that is unnecessary or wrong
35. gl_____rs move tardily *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
36. re_____e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
37. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
38. fa_____nd acreage *n.* land used for farming or agricultural purposes
39. di_____e to the associate *v.* to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
40. lif_____ng device *n.* the act or process of rescuing someone else's life, especially from drowning

ANSWERS: 30. lifesaving, 31. cling, 32. regenerate, 33. dilute, 34. tempt, 35. glacier, 36. recycle, 37. recycle, 38. farmland, 39. dictate, 40. lifesaving

41. 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
42. di___e acid with water *v.* to make a substance less concentrated by adding a liquid or another substance to it
43. the infinite in_____ty of man *n.* the quality of inventing things or solving problems in clever new ways
44. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
45. li_____y the soil *v.* to turn a solid substance into a liquid state; to make something fluid or easier to flow
46. 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
47. 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
48. dis_____on him about reality *v.* to disappoint someone or something because you found that something you believed in or hoped for was not as it seemed
49. di_____e a letter to secretary *v.* to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded

ANSWERS: 41. electrify, 42. dilute, 43. ingenuity, 44. emit, 45. liquefy, 46. thermostat, 47. thermostat, 48. disillusion, 49. dictate

50. abound in in_____ty

n. the quality of inventing things or solving problems in clever new ways

ANSWERS: 50. ingenuity

Session 3: Fill in the Blanks

1. He _____ to the hope that he will find a job soon.
v. to hold onto something tightly; to be closely attached to someone or something

2. The _____ of the ice age have shaped Fjord.
n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

3. 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

4. The _____ land in the valley was ideal for growing wheat and corn.
adj. relating to land that is suitable for growing crops; capable of being plowed and used for agriculture

5. The desalination plant turned _____ into drinking water through a complex process.
n. water from the sea or ocean, typically containing salt and various other dissolved minerals

6. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
v. to sort and collect things to process them and produce valuable materials that can be used again

7. The government is encouraging farmers to expand their _____ to increase food production.
n. land used for farming or agricultural purposes

ANSWERS: 1. clings, 2. glaciers, 3. electrify, 4. arable, 5. seawater, 6. recycle, 7. farmland

8. 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
9. She felt _____ with the management and decided to leave.
- v.* to disappoint someone or something because you found that something you believed in or hoped for was not as it seemed
10. The _____ of the new policy was that it would be more expensive for customers.
- n.* the negative aspects or consequences of something; the potential for loss or failure
11. The butter began to _____ during the heat wave and drip off the countertop.
- v.* to turn a solid substance into a liquid state; to make something fluid or easier to flow
12. The allies _____ the terms of surrender to the country.
- v.* to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
13. The patient needs a _____ transplant operation.
- n.* the act or process of rescuing someone else's life, especially from drowning
14. Creativity and _____ are often brought about by extreme concentration.
- n.* the quality of inventing things or solving problems in clever new ways
15. The phone rang at the most _____ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 8. improvisation, 9. disillusioned, 10. downside, 11. liquefy, 12. dictated, 13. lifesaving, 14. ingenuity, 15. opportune

16. Though he was evil, he never _____ his friends into wrongdoing.
- v.* to make someone want to do or have something, especially something that is unnecessary or wrong
17. 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
18. 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
19. She _____ the memories of her childhood.
- v.* to hold someone or something dear; to feel or show affection for someone or something
20. 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
21. The new CEO's primary mission is to _____ the company on the verge of bankruptcy.
- v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
22. The destruction of the _____ is a ticking time bomb for the Earth.
- n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

ANSWERS: 16. tempted, 17. thermostat, 18. dissolved, 19. cherished, 20. geothermal, 21. regenerate, 22. rainforest

23. She _____ the concentrated juice with water.

- v. to make a substance less concentrated by adding a liquid or another substance to it

24. During the unloading, the container box _____ a clicking sound.

- v. to give off or send out something such as light, heat, sound, gas, etc.

25. The magician's tricks _____ the audience.

- v. to fill with wonder, surprise, or admiration

ANSWERS: 23. diluted, 24. emits, 25. amazed