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Lisa Dyson: A forgotten Space Age technology could change how we grow food | TED Talk

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

Advanced Words Only

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Session 1: Word List

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym : spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

microorganism

n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

synonym : germ, microbe, bacterium

(1) pathogenic **microorganism**, (2) **microorganisms** in his gut

This **microorganism** is a producer of respiratory disease.

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym : germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

onboard

v. to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

synonym: embark, aboard, on-load

(1) **onboard** the new employees, (2) **onboard** computer
The passengers were instructed to **onboard** the aircraft as quickly as possible so that the flight could depart on time.

exhale

v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

synonym: breathe out, expel, emit

(1) **exhale** a big sigh, (2) **exhale** cigarette smoke
He took a deep breath and slowly began to **exhale**.

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.

reed

n. a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone

synonym: cane, grass

(1) **reed** instrument, (2) a young bud of **reed**
The **reed** in the wind instrument needs to be replaced.

spaceship

n. (especially in science fiction) a spacecraft designed to carry a crew into interstellar space

synonym: starship, rocket, spacecraft

(1) a **spaceship** to survey the moon, (2) alien **spaceship**
They launched a crewless **spaceship** into space.

cultivate

v. to prepare and foster land for growing crops or plants
synonym: boost, foster, nurture

(1) **cultivate** a field, (2) **cultivate** relationships

University is a great place to **cultivate** our minds and expertise.

supercharge

v. to increase the power or energy of something
synonym: boost, enhance, power up

(1) **supercharge** economic growth, (2) **supercharge** the battery

They **supercharged** the engine to get more power.

overlook

v. to fail to notice something; to watch over someone; to provide a view from above

synonym: disregard, look down, supervise

(1) **overlook** a street, (2) **overlook** that fact

We cannot **overlook** an opportunity for great success.

citrus

n. a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits

synonym: orange, lemon, lime

(1) **citrus** trees, (2) **citrus** scent

Citrus fruits like oranges and lemons are high in vitamin C.

flavoring

n. a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance

synonym: spice, seasoning, essence

(1) beverage **flavoring**, (2) natural **flavoring**

The recipe calls for adding a dash of vanilla **flavoring** to the batter.

biodegrade

v. to decay naturally by microorganisms, such as bacteria and fungi

(1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

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.

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.

detergent

n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

synonym: soap, cleanser, disinfectant

(1) **detergent** solution, (2) laundry **detergent**

I use environmentally friendly **detergent** when I wash my clothes and dishes.

hydrothermal

adj. relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result

synonym: geothermal, thermal, volcanic

(1) **hydrothermal** vents, (2) **hydrothermal** chemistry

The **hydrothermal** activity in this area creates a unique environment for marine creatures.

carbohydrate

n. (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

synonym: sugar, starch, cellulose

(1) complex **carbohydrate**, (2) **carbohydrate** metabolism

Foods high in **carbohydrates** include bread, pasta, and rice.

noir

adj. a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French

synonym : dark, shadowy, black

(1) **noir** crime novel, (2) **noir** atmosphere

The film **noir** genre is known for its dark and brooding atmosphere.

brew

v. to make beer or tea by mixing a substance with hot water

synonym : make, prepare

(1) **brew** a cup of tea, (2) **brew** beer

I am going to **brew** some coffee this morning.

soybean

n. a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications

synonym : soya, edamame

(1) **soybean** oil, (2) **soybean** production

The farmer harvested his **soybean** crop and took it to market.

quo

n. the existing state or condition of something, especially in relation to a particular situation or issue

synonym : status, condition, state

(1) status **quo** politician, (2) **quo** warranto

The company has been successful in maintaining the status **quo**.

progeny

n. the descendants or offspring of a person, animal, or plant

synonym : offspring, children, descendants

(1) **progeny** viral DNA, (2) **progeny** of plants

The royal family has much **progeny** scattered across the

globe.

Session 2: Spelling

1. hyd_____mal vents *adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
2. pathogenic mic_____ism *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
3. pr_____y of plants *n.* the descendants or offspring of a person, animal, or plant
4. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
5. status q_o politician *n.* the existing state or condition of something, especially in relation to a particular situation or issue
6. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
7. hyd_____mal chemistry *adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
8. natural fl_____ng *n.* a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance
9. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

ANSWERS: 1. hydrothermal, 2. microorganism, 3. progeny, 4. astronaut, 5. quo, 6. astronaut, 7. hydrothermal, 8. flavoring, 9. rainforest

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|--------------------------------|---|
| 10. alien sp_____ip | <i>n.</i> (especially in science fiction) a spacecraft designed to carry a crew into interstellar space |
| 11. ov_____ok that fact | <i>v.</i> to fail to notice something; to watch over someone; to provide a view from above |
| 12. mi_____es sterilizer | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |
| 13. a young bud of r__d | <i>n.</i> a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone |
| 14. complex car_____ate | <i>n.</i> (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals |
| 15. e__t a gamma ray | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |
| 16. sup_____ge economic growth | <i>v.</i> to increase the power or energy of something |
| 17. mic_____isms in his gut | <i>n.</i> a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope |
| 18. pathogenic mi_____e | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |

ANSWERS: 10. spaceship, 11. overlook, 12. microbe, 13. reed, 14. carbohydrate, 15. emit, 16. supercharge, 17. microorganism, 18. microbe

19. pr____y viral DNA *n.* the descendants or offspring of a person, animal, or plant
20. on____d the new employees *v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
21. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
22. q_o warranto *n.* the existing state or condition of something, especially in relation to a particular situation or issue
23. ex____e cigarette smoke *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
24. ov____ok a street *v.* to fail to notice something; to watch over someone; to provide a view from above
25. 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
26. ex____e a big sigh *v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
27. r__d instrument *n.* a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone

ANSWERS: 19. progeny, 20. onboard, 21. emit, 22. quo, 23. exhale, 24. overlook, 25. recycle, 26. exhale, 27. reed

28. cu_____te a field *v.* to prepare and foster land for growing crops or plants
29. ci___s trees *n.* a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits
30. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
31. b__w beer *v.* to make beer or tea by mixing a substance with hot water
32. beverage fl_____ng *n.* a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance
33. so_____n production *n.* a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications
34. de_____nt solution *n.* a substance used for washing or cleaning, especially one that can remove dirt or stains effectively
35. bioplastic designed to bio_____de *v.* to decay naturally by microorganisms, such as bacteria and fungi
36. sup_____ge the battery *v.* to increase the power or energy of something
37. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

ANSWERS: 28. cultivate, 29. citrus, 30. recycle, 31. brew, 32. flavoring, 33. soybean, 34. detergent, 35. biodegrade, 36. supercharge, 37. rainforest

38. car_____ate metabolism *n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals
39. bio_____de by the microorganism *v.* to decay naturally by microorganisms, such as bacteria and fungi
40. b__w a cup of tea *v.* to make beer or tea by mixing a substance with hot water
41. ci___s scent *n.* a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits
42. a sp_____ip to survey the moon *n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
43. n__r atmosphere *adj.* a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French
44. cu_____te relationships *v.* to prepare and foster land for growing crops or plants
45. on_____d computer *v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device
46. so_____n oil *n.* a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications

ANSWERS: 38. carbohydrate, 39. biodegrade, 40. brew, 41. citrus, 42. spaceship, 43. noir, 44. cultivate, 45. onboard, 46. soybean

47. n__r crime novel

adj. a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French

48. laundry de_____nt

n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

ANSWERS: 47. noir, 48. detergent

Session 3: Fill in the Blanks

1. The shuttle _____ trained for months before embarking on the space mission.
 - n.* a person trained by a space agency to travel outside the Earth's atmosphere

2. The recipe calls for adding a dash of vanilla _____ to the batter.
 - n.* a substance or combination of substances used to add taste or aroma to food or drink; a controlled substance used to mask the taste or odor of another substance

3. He took a deep breath and slowly began to _____.
 - v.* to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

4. The passengers were instructed to _____ the aircraft as quickly as possible so that the flight could depart on time.
 - v.* to become or make part of a team, group, or system; to install, activate, or begin using a piece of equipment or software; (adjective) included or integrated into a particular system, machine, or device

5. Foods high in _____ include bread, pasta, and rice.
 - n.* (also carb) any of a class of organic compounds that includes sugars, starch, and cellulose and are a principal source of energy in the diet of animals

6. I am going to _____ some coffee this morning.
 - v.* to make beer or tea by mixing a substance with hot water

7. 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

ANSWERS: 1. astronaut, 2. flavoring, 3. exhale, 4. onboard, 5. carbohydrates, 6. brew, 7. recycle

8. They _____ the engine to get more power.
v. to increase the power or energy of something
9. _____ fruits like oranges and lemons are high in vitamin C.
n. a group of fruits that belong to the citrus family, including oranges, lemons, limes, and grapefruits; the trees that bear these fruits
10. They launched a crewless _____ into space.
n. (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
11. This _____ is a producer of respiratory disease.
n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
12. The farmer harvested his _____ crop and took it to market.
n. a legume crop widely cultivated for its nutritious seeds, often ground into meal or pressed into oil for food products, with other uses including animal feed, fuel, and industrial applications
13. The company has been successful in maintaining the status _____.
n. the existing state or condition of something, especially in relation to a particular situation or issue
14. University is a great place to _____ our minds and expertise.
v. to prepare and foster land for growing crops or plants
15. _____ thrive on the surface of the human skin.
n. a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 8. supercharged, 9. Citrus, 10. spaceship, 11. microorganism, 12. soybean, 13. quo, 14. cultivate, 15. Microbes

16. The royal family has much _____ scattered across the globe.
n. the descendants or offspring of a person, animal, or plant
17. I use environmentally friendly _____ when I wash my clothes and dishes.
n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively
18. 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
19. We cannot _____ an opportunity for great success.
v. to fail to notice something; to watch over someone; to provide a view from above
20. The company's plastic products are easily _____ thanks to a unique manufacturing process.
v. to decay naturally by microorganisms, such as bacteria and fungi
21. The _____ activity in this area creates a unique environment for marine creatures.
adj. relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
22. The _____ in the wind instrument needs to be replaced.
n. a tall, slender-leaved plant that grows in water; a thin strip of wood or metal that vibrates to produce sound in certain musical instruments such as oboe, clarinet, and saxophone
23. The film _____ genre is known for its dark and brooding atmosphere.
adj. a type of film or literature that emphasizes crime, darkness, and moral ambiguity, often using shadowy, low-light cinematography or atmospheric prose; meaning "black" or "dark" in French

ANSWERS: 16. progeny, 17. detergent, 18. rainforest, 19. overlook, 20. biodegraded, 21. hydrothermal, 22. reed, 23. noir

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.

ANSWERS: 24. emits