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Vocabulary Builder Reference from...

Jessica Green: We're covered in germs. Let's design for that. | TED Talk

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

Advanced Words Only

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Session 1: Word List

fungus

n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

synonym : mold, mildew, yeast

(1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

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.

fieldwork

n. real-world research or study conducted outside a library or laboratory.

(1) meticulous **fieldwork**, (2) perform **fieldwork**

Numerous instances from **fieldwork** show these hypotheses in great detail.

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.

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.

lobe

n. a rounded projection or division, especially of the brain, lung, or liver

synonym: part, section, division

(1) **lobe** of the liver, (2) frontal **lobe**
The lungs are divided into five **lobes**.

bacillus

n. a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals

synonym: bacterium, microbe, germ

(1) **bacillus** infection, (2) aerobic **bacillus**
Scientists have discovered a new strain of the rod-shaped **bacillus** resistant to antibiotics.

temperate

adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

synonym: moderate, mild, genial

(1) **temperate** grassland, (2) **temperate** behavior
The **temperate** climate of the region made it an ideal vacation spot.

grassland

n. a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock

synonym: meadow, plain, savanna

(1) endangered **grassland**, (2) vast **grassland**
Meadows and pastures are examples of smaller-scale **grasslands** in many parts of the world.

disperse

v. to spread out or distribute over a broad region, or to cause something to do so
synonym: dissipate, spread, scatter

(1) **disperse** false information, (2) **disperse** the protesters
Before authorities **dispersed** the protesters, they yelled slogans.

archipelago

n. a group of islands, often located in a specific area or region
synonym: group of islands, island chain

(1) tropical **archipelago**, (2) volcanic **archipelago**
The Philippines is an **archipelago** made up of over 7,000 islands.

biome

n. a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
synonym: ecosystem, habitat, biota

(1) **biome** conservation, (2) marine **biome**
The rainforest is one of the most diverse **biomes** on the planet.

facet

n. one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
synonym: aspect, side, angle

(1) **facet** to a question, (2) important **facet**
The different **facets** of his personality make him a complex individual.

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym: consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

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.

ventilate

v. to supply fresh air to a room, building, etc.; to remove stale air from it

synonym: air out, circulate, freshen

(1) **ventilate** my opinion, (2) **ventilate** air

It's important to **ventilate** the room to avoid the buildup of harmful gases.

outdo

v. to do better than someone; to surpass

synonym: excel, surpass, outshine

(1) **outdo** him in trickery, (2) **outdo** the competition

He tried to **outdo** his rival by breaking the world record.

stagnant

adj. not flowing or circulating; standing still; stagnant water

synonym: still, stagnant, unmoving

(1) **stagnant** car sales, (2) **stagnant** economy

The **stagnant** water in the pond is a breeding ground for mosquitoes.

airborne

adj. moved or conveyed by or through the air; in the air

synonym: flying, aerial, floating

(1) **airborne** troop, (2) **airborne** particles

The amount of **airborne** pollen this year is higher than usual.

louver

n. a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior

synonym : slat, blade, shutter

(1) horizontal **louver**, (2) **louver** door

The **louver** window allowed air to flow through the room while keeping out the rain.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym : germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

bioinformatics

n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

synonym : computational biology, genomics

(1) **bioinformatics** research, (2) **bioinformatics** tools

Bioinformatics algorithms are essential for identifying and analyzing patterns in biological data.

Session 2: Spelling

- | | |
|-----------------------------------|---|
| 1. pathogenic mi_____e | <i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease |
| 2. plant pa_____en | <i>n.</i> a bacterium, virus, or other microorganism that causes disease |
| 3. di_____se the protesters | <i>v.</i> to spread out or distribute over a broad region, or to cause something to do so |
| 4. vi_____ze flying through space | <i>v.</i> to form a mental image or concept of something; to make something visible |
| 5. l__e of the liver | <i>n.</i> a rounded projection or division, especially of the brain, lung, or liver |
| 6. ex_____e rebellion | <i>v.</i> to make someone feel suddenly enthusiastic or eager |
| 7. te_____te behavior | <i>adj.</i> mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude |
| 8. ou__o the competition | <i>v.</i> to do better than someone; to surpass |
| 9. ai_____ne particles | <i>adj.</i> moved or conveyed by or through the air; in the air |
| 10. ou__o him in trickery | <i>v.</i> to do better than someone; to surpass |
| 11. aerobic ba_____us | <i>n.</i> a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals |

ANSWERS: 1. microbe, 2. pathogen, 3. disperse, 4. visualize, 5. lobe, 6. excite, 7. temperate, 8. outdo, 9. airborne, 10. outdo, 11. bacillus

12. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
13. ve_____te air *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
14. vast gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
15. the pa_____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
16. ba_____us infection *n.* a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals
17. fu___s infection *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
18. volcanic arc_____go *n.* a group of islands, often located in a specific area or region
19. bio_____ics research *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas
20. st_____nt car sales *adj.* not flowing or circulating; standing still; stagnant water

ANSWERS: 12. rainforest, 13. ventilate, 14. grassland, 15. pathogen, 16. bacillus, 17. fungus, 18. archipelago, 19. bioinformatics, 20. stagnant

21. meticulous fi_____rk *n.* real-world research or study conducted outside a library or laboratory.
22. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
23. lo___r door *n.* a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior
24. te_____te grassland *adj.* mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
25. ai_____ne troop *adj.* moved or conveyed by or through the air; in the air
26. frontal l___e *n.* a rounded projection or division, especially of the brain, lung, or liver
27. bio_____ics tools *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas
28. marine bi___e *n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest

ANSWERS: 21. fieldwork, 22. excite, 23. louver, 24. temperate, 25. airborne, 26. lobe, 27. bioinformatics, 28. biome

29. di_____se false information *v.* to spread out or distribute over a broad region, or to cause something to do so
30. bi__e conservation *n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
31. de_____te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
32. de_____te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
33. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
34. perform fi_____rk *n.* real-world research or study conducted outside a library or laboratory.
35. endangered gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
36. symbiotic fu____s *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
37. st_____nt economy *adj.* not flowing or circulating; standing still; stagnant water

ANSWERS: 29. disperse, 30. biome, 31. dedicate, 32. dedicate, 33. visualize, 34. fieldwork, 35. grassland, 36. fungus, 37. stagnant

38. tropical arc_____go *n.* a group of islands, often located in a specific area or region
39. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
40. ve_____te my opinion *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
41. important fa__t *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something
42. horizontal lo___r *n.* a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior
43. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
44. fa__t to a question *n.* one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

ANSWERS: 38. archipelago, 39. microbe, 40. ventilate, 41. facet, 42. louver, 43. rainforest, 44. facet

Session 3: Fill in the Blanks

1. Numerous instances from _____ show these hypotheses in great detail.
n. real-world research or study conducted outside a library or laboratory.

2. _____ 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

3. The lungs are divided into five _____.
n. a rounded projection or division, especially of the brain, lung, or liver

4. _____ algorithms are essential for identifying and analyzing patterns in biological data.
n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

5. Certain types of _____ can be toxic to humans, causing severe illness if ingested.
n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

6. The different _____ of his personality make him a complex individual.
n. one of the many aspects or sides of a subject or situation, especially when seen from different angles or perspectives; a particular feature or characteristic of something

7. Before authorities _____ the protesters, they yelled slogans.
v. to spread out or distribute over a broad region, or to cause something to do so

ANSWERS: 1. fieldwork, 2. Microbes, 3. lobes, 4. Bioinformatics, 5. fungus, 6. facets, 7. dispersed

8. He tried to _____ his rival by breaking the world record.
v. to do better than someone; to surpass
9. The Philippines is an _____ made up of over 7,000 islands.
n. a group of islands, often located in a specific area or region
10. Scientists have discovered a new strain of the rod-shaped _____ resistant to antibiotics.
n. a rod-shaped bacterium typically found in soil or water, some of which are responsible for causing disease in humans and animals
11. The _____ window allowed air to flow through the room while keeping out the rain.
n. a window or door with horizontal slats that can be adjusted to allow light and air to pass through while preventing rain, direct sunlight, and sight of the interior
12. 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
13. The _____ climate of the region made it an ideal vacation spot.
adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude
14. 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
15. The rainforest is one of the most diverse _____ on the planet.
n. a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest

ANSWERS: 8. outdo, 9. archipelago, 10. bacillus, 11. louver, 12. rainforest, 13. temperate, 14. visualize, 15. biomes

16. mRNA vaccines are approved faster because they do not contain inactivated _____.
- n.* a bacterium, virus, or other microorganism that causes disease
17. The news of her promotion _____ her.
- v.* to make someone feel suddenly enthusiastic or eager
18. The _____ water in the pond is a breeding ground for mosquitoes.
- adj.* not flowing or circulating; standing still; stagnant water
19. The amount of _____ pollen this year is higher than usual.
- adj.* moved or conveyed by or through the air; in the air
20. Meadows and pastures are examples of smaller-scale _____ in many parts of the world.
- n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
21. He _____ his life to helping others.
- v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
22. It's important to _____ the room to avoid the buildup of harmful gases.
- v.* to supply fresh air to a room, building, etc.; to remove stale air from it

ANSWERS: 16. pathogens, 17. excited, 18. stagnant, 19. airborne, 20. grasslands, 21. dedicated, 22. ventilate