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Vocabulary Builder Reference from...

Ayana Elizabeth Johnson and Megan Davis:

Underwater farms vs. climate change | TED Talk

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

Advanced Words Only

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Session 1: Word List

overfish

v. to deplete fish populations beyond sustainable levels through excessive or unregulated fishing practices, leading to environmental and economic consequences

synonym: deplete, exhaust, drain

(1) **overfish** the coral reefs, (2) **overfish** certain areas

Scientists warn that many species could face extinction if we continue to **overfish** our oceans.

shellfish

n. water creatures that live in shells, especially one of the types that can be eaten

synonym: clam, mollusk

(1) **shellfish** allergy, (2) edible **shellfish**

Shellfish can cause allergic reactions in certain people.

seaweed

n. a plant that grows in the sea or on land very close to the sea, especially marine algae

synonym: kelp, algae

(1) floating **seaweed**, (2) **seaweed** broth

She soaked **seaweed** in water until tender.

aquaculture

n. the cultivation of aquatic organisms such as fish, seaweed, and shellfish for human consumption, as well

as for environmental conservation and research purposes

synonym : fish farming, mariculture, hydroponics

(1) **aquaculture** industry, (2) sustainable **aquaculture**

Fish farming is a form of **aquaculture** that has recently gained popularity.

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

fjord

n. a long, narrow inlet of the sea between cliffs or hills, often with a shallow, rocky shoreline, found especially in Norway

synonym : inlet, estuary, bay

(1) spectacular **fjord**, (2) **fjord** tour

The beautiful **fjord** landscape was breathtaking to behold from the ship's deck.

overcrowded

adj. containing too many people or things in a particular space, making it cramped or uncomfortable

synonym : packed, congested, jammed

(1) **overcrowded** refugee camp, (2) **overcrowded** with passengers

The school district is facing a problem with **overcrowded** classrooms.

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.

excrete

v. to discharge waste matter, such as urine or feces, from the body or a cell or gland

synonym: eliminate, expel, secrete

(1) **excrete** a sticky liquid, (2) **excrete** waste products

The body **excretes** excess salt through urine to maintain proper electrolyte balance.

unleash

v. to suddenly release a strong force, emotion, etc. that cannot be controlled

synonym: discharge, free, release

(1) **unleash** a hound, (2) **unleash** her anger

The general was still reluctant to **unleash** his troops in pursuit of an enemy.

captivity

n. the situation in which a person or animal is kept in prison or a space that they cannot escape from

synonym: confinement, detention, imprisonment

(1) escape from **captivity**, (2) animals in **captivity** in the zoo

Pandas rarely breed in **captivity**.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym: interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.

human-made

adj. created or produced by humans; artificial

synonym: artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst **human-made** disaster

The bridge is a **human-made** structure and was built to span the river.

mangrove

n. a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it

(1) **mangrove** forest, (2) **mangrove** swamp

The **mangrove** trees are known for their ability to survive in saltwater and sandy soil.

marsh

n. a type of land that is always wet and has soft soil; swamp or bog

synonym: bog, swamp, fen

(1) **marsh** bird, (2) river-delta **marsh**

Environmentalists are concerned about the harm to the **marsh**.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

contend

v. to struggle to win or surmount something

synonym: compete, oppose, argue

(1) **contend** that tobacco is nonaddictive, (2) **contend** for a championship

Tobacco companies have long **contended** that their product is not addictive.

hurdle

n. a barrier or obstacle that must be overcome

synonym: obstacle, barrier, challenge

(1) overcome **hurdles**, (2) **hurdle** race

The company faced several **hurdles** in the development of its new product.

carnivorous

adj. feeding on the flesh of other animals

synonym: meat-eating, predatory, flesh-eating

(1) **carnivorous** cell, (2) aquatic **carnivorous** mammal

The **carnivorous** dinosaur preyed on other animals.

overfishing

n. the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem

synonym : overharvesting, over-exploitation, depletion

(1) **overfishing** crisis, (2) **overfishing** ban

The ocean's ecosystem is being threatened by **overfishing**, causing many species to become endangered.

cram

v. to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space

synonym : stuff, pack, jam

(1) **cram** more circuits into chips, (2) **cram** five people into a car

She had to **cram** for the final exam and stayed up all night studying.

fauna

n. the animal life of a particular region, habitat, or geological period

synonym : wildlife, creatures, animals

(1) the tropical **fauna**, (2) **fauna** reserve

The national park is home to a diverse **fauna** of animal species.

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.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of

photosynthesis

In **photosynthesis**, plants use carbon dioxide to feed themselves.

acidification

n. the act or process of becoming acid or making something become acid

(1) **acidification** of soil, (2) stream **acidification**

Ocean **acidification** leads to a decrease in tiny sea snails.

footprint

n. a mark of a foot, shoe, or animal's foot left on a surface
synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

regenerative

adj. tending to regrow or restore lost or injured tissue
synonym: rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

Session 2: Spelling

- | | |
|---|---|
| 1. ma_____ve swamp | <i>n.</i> a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it |
| 2. stream aci_____ion | <i>n.</i> the act or process of becoming acid or making something become acid |
| 3. ci_____te an agenda before the meeting | <i>v.</i> to move continuously or freely around a place or closed system |
| 4. reg_____ive therapy | <i>adj.</i> tending to regrow or restore lost or injured tissue |
| 5. se_____er pollution | <i>n.</i> water from the sea or ocean, typically containing salt and various other dissolved minerals |
| 6. ma_____ve forest | <i>n.</i> a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it |
| 7. hu_____e race | <i>n.</i> a barrier or obstacle that must be overcome |
| 8. se_____er bacteria | <i>n.</i> water from the sea or ocean, typically containing salt and various other dissolved minerals |
| 9. edible sh_____sh | <i>n.</i> water creatures that live in shells, especially one of the types that can be eaten |
| 10. po_____e the air | <i>v.</i> 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 |

ANSWERS: 1. mangrove, 2. acidification, 3. circulate, 4. regenerative, 5. seawater, 6. mangrove, 7. hurdle, 8. seawater, 9. shellfish, 10. pollute

- | | |
|---|---|
| 11. the fo_____nts of an earlier civilization | <i>n.</i> a mark of a foot, shoe, or animal's foot left on a surface |
| 12. the worst hum_____de disaster | <i>adj.</i> created or produced by humans; artificial |
| 13. fj__d tour | <i>n.</i> a long, narrow inlet of the sea between cliffs or hills, often with a shallow, rocky shoreline, found especially in Norway |
| 14. ci_____te a rumor | <i>v.</i> to move continuously or freely around a place or closed system |
| 15. c__m more circuits into chips | <i>v.</i> to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space |
| 16. se_____d broth | <i>n.</i> a plant that grows in the sea or on land very close to the sea, especially marine algae |
| 17. overcome hu___es | <i>n.</i> a barrier or obstacle that must be overcome |
| 18. ove_____ed with passengers | <i>adj.</i> containing too many people or things in a particular space, making it cramped or uncomfortable |
| 19. un_____h a hound | <i>v.</i> to suddenly release a strong force, emotion, etc. that cannot be controlled |
| 20. hum_____de climate change | <i>adj.</i> created or produced by humans; artificial |
| 21. aqu_____re industry | <i>n.</i> the cultivation of aquatic organisms such as fish, seaweed, and shellfish for human consumption, as well as for environmental conservation and research purposes |

ANSWERS: 11. footprint, 12. human-made, 13. fjord, 14. circulate, 15. cram, 16. seaweed, 17. hurdle, 18. overcrowded, 19. unleash, 20. human-made, 21. aquaculture

22. aquatic car_____us mammal *adj.* feeding on the flesh of other animals
23. ove_____ng crisis *n.* the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem
24. ex_____e waste products *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
25. sustainable aqua_____re *n.* the cultivation of aquatic organisms such as fish, seaweed, and shellfish for human consumption, as well as for environmental conservation and research purposes
26. sh_____sh allergy *n.* water creatures that live in shells, especially one of the types that can be eaten
27. ove_____ng ban *n.* the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem
28. fa__a reserve *n.* the animal life of a particular region, habitat, or geological period
29. ov_____sh certain areas *v.* to deplete fish populations beyond sustainable levels through excessive or unregulated fishing practices, leading to environmental and economic consequences
30. fo_____nts in the snow *n.* a mark of a foot, shoe, or animal's foot left on a surface

ANSWERS: 22. carnivorous, 23. overfishing, 24. excrete, 25. aquaculture, 26. shellfish, 27. overfishing, 28. fauna, 29. overfish, 30. footprint

31. car_____us cell *adj.* feeding on the flesh of other animals
32. process of pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
33. floating se_____d *n.* a plant that grows in the sea or on land very close to the sea, especially marine algae
34. co_____d for a championship *v.* to struggle to win or surmount something
35. ex_____e a sticky liquid *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
36. river-delta ma__h *n.* a type of land that is always wet and has soft soil; swamp or bog
37. di_____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
38. ma__h bird *n.* a type of land that is always wet and has soft soil; swamp or bog
39. reg_____ive medicine *adj.* tending to regrow or restore lost or injured tissue
40. co_____d that tobacco is nonaddictive *v.* to struggle to win or surmount something
41. ind_____us student *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 31. carnivorous, 32. photosynthesis, 33. seaweed, 34. contend, 35. excrete, 36. marsh, 37. disrupt, 38. marsh, 39. regenerative, 40. contend, 41. industrious

42. spectacular fj__d *n.* a long, narrow inlet of the sea between cliffs or hills, often with a shallow, rocky shoreline, found especially in Norway
43. 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
44. animals in ca_____ty in the zoo *n.* the situation in which a person or animal is kept in prison or a space that they cannot escape from
45. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
46. aci_____ion of soil *n.* the act or process of becoming acid or making something become acid
47. ov_____sh the coral reefs *v.* to deplete fish populations beyond sustainable levels through excessive or unregulated fishing practices, leading to environmental and economic consequences
48. c__m five people into a car *v.* to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
49. di_____t a well-ordered condition *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
50. un_____h her anger *v.* to suddenly release a strong force, emotion, etc. that cannot be controlled

ANSWERS: 42. fjord, 43. pollute, 44. captivity, 45. industrious, 46. acidification, 47. overfish, 48. cram, 49. disrupt, 50. unleash

51. escape from ca_____ty

n. the situation in which a person or animal is kept in prison or a space that they cannot escape from

52. the tropical fa__a

n. the animal life of a particular region, habitat, or geological period

53. ove_____ed refugee camp

adj. containing too many people or things in a particular space, making it cramped or uncomfortable

54. oxygenic pho_____sis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 51. captivity, 52. fauna, 53. overcrowded, 54. photosynthesis

Session 3: Fill in the Blanks

1. The school district is facing a problem with _____ classrooms.
adj. containing too many people or things in a particular space, making it cramped or uncomfortable
2. The body _____ excess salt through urine to maintain proper electrolyte balance.
v. to discharge waste matter, such as urine or feces, from the body or a cell or gland
3. The _____ properties of stem cells make them a promising area of research.
adj. tending to regrow or restore lost or injured tissue
4. The _____ dinosaur preyed on other animals.
adj. feeding on the flesh of other animals
5. Fish farming is a form of _____ that has recently gained popularity.
n. the cultivation of aquatic organisms such as fish, seaweed, and shellfish for human consumption, as well as for environmental conservation and research purposes
6. The bridge is a _____ structure and was built to span the river.
adj. created or produced by humans; artificial
7. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort

ANSWERS: 1. overcrowded, 2. excretes, 3. regenerative, 4. carnivorous, 5. aquaculture, 6. human-made, 7. industrious

8. The general was still reluctant to _____ his troops in pursuit of an enemy.
v. to suddenly release a strong force, emotion, etc. that cannot be controlled
9. She had to _____ for the final exam and stayed up all night studying.
v. to force or try to fit a large amount of information into a short time, especially in preparation for an examination; to force or try to fit a large amount of something into a small space
10. We choose transportation that has a smaller carbon _____.
n. a mark of a foot, shoe, or animal's foot left on a surface
11. _____ can cause allergic reactions in certain people.
n. water creatures that live in shells, especially one of the types that can be eaten
12. The national park is home to a diverse _____ of animal species.
n. the animal life of a particular region, habitat, or geological period
13. The fan _____ the air in the room quickly.
v. to move continuously or freely around a place or closed system
14. Ocean _____ leads to a decrease in tiny sea snails.
n. the act or process of becoming acid or making something become acid
15. 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
16. The beautiful _____ landscape was breathtaking to behold from the ship's deck.
n. a long, narrow inlet of the sea between cliffs or hills, often with a shallow, rocky shoreline, found especially in Norway

ANSWERS: 8. unleash, 9. cram, 10. footprint, 11. Shellfish, 12. fauna, 13. circulates, 14. acidification, 15. pollute, 16. fjord

17. Environmentalists are concerned about the harm to the _____.
- n.* a type of land that is always wet and has soft soil; swamp or bog
18. Tobacco companies have long _____ that their product is not addictive.
- v.* to struggle to win or surmount something
19. The company faced several _____ in the development of its new product.
- n.* a barrier or obstacle that must be overcome
20. I'm so sorry to _____ you when you're pretty busy.
- v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
21. 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
22. The ocean's ecosystem is being threatened by _____ causing many species to become endangered.
- n.* the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem
23. Scientists warn that many species could face extinction if we continue to _____ our oceans.
- v.* to deplete fish populations beyond sustainable levels through excessive or unregulated fishing practices, leading to environmental and economic consequences
24. In _____ plants use carbon dioxide to feed themselves.
- n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 17. marsh, 18. contended, 19. hurdles, 20. disrupt, 21. seawater, 22. overfishing, 23. overfish, 24. photosynthesis,

25. Pandas rarely breed in _____.

- n.* the situation in which a person or animal is kept in prison or a space that they cannot escape from

26. The _____ trees are known for their ability to survive in saltwater and sandy soil.

- n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it

27. She soaked _____ in water until tender.

- n.* a plant that grows in the sea or on land very close to the sea, especially marine algae

ANSWERS: 25. captivity, 26. mangrove, 27. seaweed