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Vocabulary Builder Reference from...

Triona McGrath: How pollution is changing the ocean's chemistry | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

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.

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.

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.

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.

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.

stormy

adj. marked by strong winds, heavy rain, thunder, and lightning; characterized by tumultuous or rough emotions, particularly in a relationship or situation

synonym: tempestuous, turbulent, choppy

(1) **stormy** relationship, (2) **stormy** weather

The city council meeting was **stormy**, as people argued about a controversial new policy.

coincide

v. to take place at or near the same time

synonym: overlap, coexist, concur

(1) partly **coincide**, (2) **coincide** with reality

These results **coincide** with our hypothesis.

carbonate

n. a carbonic acid salt or ester that contains the anion CO₃

(1) sodium **carbonate**, (2) alkaline **carbonate**

The explosive chemical reaction does not occur in all sodium **carbonate**.

mussel

n. a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible

synonym: clam, oyster, bivalve

(1) **mussel** shells, (2) **mussel** cultivation

I ordered the **mussels** in a white wine sauce for dinner.

oyster

n. a bivalve mollusk with a rough irregular shell, often eaten raw or cooked, and sometimes used as a pearl-producing animal or a source of mother-of-pearl

synonym: shellfish, clam, mussel

(1) **oyster** shell, (2) **oyster** farm

I ordered a dozen **oysters** as an appetizer at the seafood restaurant.

pteropod

n. a marine gastropod mollusk, also known as "sea butterfly" or "winged snail," characterized by a pair of wing-like appendages that enable them to swim in open water

synonym: winged snail, sea butterfly, flying snail

(1) **pteropod** shell, (2) **pteropod** species

The **pteropod** population has been declining due to ocean acidification.

krill

n. a small, shrimp-like crustacean that is a major food source for many marine animals

synonym: shrimp, plankton, zooplankton

(1) eat **krill**, (2) Antarctic **krill**

The decline in **krill** populations in recent years has raised concerns about the health of marine ecosystems.

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.

dread

v. to be very afraid of or worried about something that is going to happen or that might happen

synonym: fear, cringe, apprehend

(1) **dread** failure, (2) **dread** getting old

We all **dread** to think about what will happen if the company goes bankrupt.

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.

Session 2: Spelling

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|---------------------------------------|---|
| 1. ind_____us worker | <i>adj.</i> hardworking, diligent, and persistent in effort |
| 2. pt_____od shell | <i>n.</i> a marine gastropod mollusk, also known as "sea butterfly" or "winged snail," characterized by a pair of wing-like appendages that enable them to swim in open water |
| 3. officially di_____ved the marriage | <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 |
| 4. me_____al chemistry | <i>adj.</i> of or relating to the treatment or cure of disease |
| 5. aci_____ion of soil | <i>n.</i> the act or process of becoming acid or making something become acid |
| 6. se_____er bacteria | <i>n.</i> water from the sea or ocean, typically containing salt and various other dissolved minerals |
| 7. mu____l shells | <i>n.</i> a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible |
| 8. e__t a gamma ray | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |
| 9. alkaline ca_____te | <i>n.</i> a carbonic acid salt or ester that contains the anion CO ₃ |
| 10. sh_____sh allergy | <i>n.</i> water creatures that live in shells, especially one of the types that can be eaten |

ANSWERS: 1. industrious, 2. pteropod, 3. dissolve, 4. medicinal, 5. acidification, 6. seawater, 7. mussel, 8. emit, 9. carbonate, 10. shellfish

11. dr__d getting old *v.* to be very afraid of or worried about something that is going to happen or that might happen
12. se_____er pollution *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
13. pt_____od species *n.* a marine gastropod mollusk, also known as "sea butterfly" or "winged snail," characterized by a pair of wing-like appendages that enable them to swim in open water
14. dr__d failure *v.* to be very afraid of or worried about something that is going to happen or that might happen
15. sodium ca_____te *n.* a carbonic acid salt or ester that contains the anion CO₃
16. partly co_____de *v.* to take place at or near the same time
17. oy___r farm *n.* a bivalve mollusk with a rough irregular shell, often eaten raw or cooked, and sometimes used as a pearl-producing animal or a source of mother-of-pearl
18. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
19. st___y weather *adj.* marked by strong winds, heavy rain, thunder, and lightning; characterized by tumultuous or rough emotions, particularly in a relationship or situation
20. stream aci_____ion *n.* the act or process of becoming acid or making something become acid

ANSWERS: 11. dread, 12. seawater, 13. pteropod, 14. dread, 15. carbonate, 16. coincide, 17. oyster, 18. emit, 19. stormy, 20. acidification

21. st___y relationship *adj.* marked by strong winds, heavy rain, thunder, and lightning; characterized by tumultuous or rough emotions, particularly in a relationship or situation
22. mu___l cultivation *n.* a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible
23. eat kr___l *n.* a small, shrimp-like crustacean that is a major food source for many marine animals
24. co____de with reality *v.* to take place at or near the same time
25. ind____us student *adj.* hardworking, diligent, and persistent in effort
26. di____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
27. edible sh____sh *n.* water creatures that live in shells, especially one of the types that can be eaten
28. Antarctic kr___l *n.* a small, shrimp-like crustacean that is a major food source for many marine animals
29. oy___r shell *n.* a bivalve mollusk with a rough irregular shell, often eaten raw or cooked, and sometimes used as a pearl-producing animal or a source of mother-of-pearl
30. traditional me____al *adj.* of or relating to the treatment or cure of disease

ANSWERS: 21. stormy, 22. mussel, 23. krill, 24. coincide, 25. industrious, 26. dissolve, 27. shellfish, 28. krill, 29. oyster, 30. medicinal

Session 3: Fill in the Blanks

1. The explosive chemical reaction does not occur in all sodium _____.
n. a carbonic acid salt or ester that contains the anion CO₃
2. During the unloading, the container box _____ a clicking sound.
v. to give off or send out something such as light, heat, sound, gas, etc.
3. I ordered a dozen _____ as an appetizer at the seafood restaurant.
n. a bivalve mollusk with a rough irregular shell, often eaten raw or cooked, and sometimes used as a pearl-producing animal or a source of mother-of-pearl
4. The _____ population has been declining due to ocean acidification.
n. a marine gastropod mollusk, also known as "sea butterfly" or "winged snail," characterized by a pair of wing-like appendages that enable them to swim in open water
5. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort
6. Ocean _____ leads to a decrease in tiny sea snails.
n. the act or process of becoming acid or making something become acid
7. These results _____ with our hypothesis.
v. to take place at or near the same time
8. The city council meeting was _____ as people argued about a controversial new policy.
adj. marked by strong winds, heavy rain, thunder, and lightning; characterized by tumultuous or rough emotions, particularly in a relationship or situation

ANSWERS: 1. carbonate, 2. emits, 3. oysters, 4. pteropod, 5. industrious, 6. acidification, 7. coincide, 8. stormy,

9. 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
10. _____ can cause allergic reactions in certain people.
- n.* water creatures that live in shells, especially one of the types that can be eaten
11. The decline in _____ populations in recent years has raised concerns about the health of marine ecosystems.
- n.* a small, shrimp-like crustacean that is a major food source for many marine animals
12. I ordered the _____ in a white wine sauce for dinner.
- n.* a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible
13. We all _____ to think about what will happen if the company goes bankrupt.
- v.* to be very afraid of or worried about something that is going to happen or that might happen
14. 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
15. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease

ANSWERS: 9. dissolved, 10. Shellfish, 11. krill, 12. mussels, 13. dread, 14. seawater, 15. medicinal