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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

All Words

IMPORTANT

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Session 1: Word List

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

moderate

adj. being within reasonable limits; not excessive or extreme

synonym: average, middle-of-the-road, tempered

(1) **moderate** growth, (2) **moderate** risk

He had a **moderate** understanding of the topic but needed further research.

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

Climate and weather have an impact on every part of our lifestyles.

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.

protein

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

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.

evil

adj. profoundly immoral, cruel, and wicked; having or exerting a harmful effect on people

synonym: malign, corruption, immorality

(1) **evil** ways, (2) a charm against **evil**

Corruption is an **evil** act for any reason.

twin

n. either of two children born at the same time from the same mother

(1) a **twin-lens** camera, (2) a **twin** room

Its **twin** brothers are difficult to tell apart except for their

parents.

absorb

v. to take in a fluid or other substance gradually

synonym : consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock

The sponge **absorbs** water well.

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

oxide

n. a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

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.

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym : air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

greenhouse

n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

synonym : conservatory

(1) exotic plants in a **greenhouse**, (2) emissions of **greenhouse** gases

The **greenhouse** effect is a phenomenon that happens naturally.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym: drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood throughout the body

He was alert and could not **pump** any critical information out of him.

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.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

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.

undergo

v. to go through something unpleasant or that involves a change

synonym: experience, suffer, endure

(1) **undergo** surgery, (2) **undergo** a decrease
The train has to **undergo** rigorous safety checks.

chemical

adj. relating to or connected with chemistry;
synonym : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound
The firm has grown into a large **chemical** manufacturing.

reaction

n. a response that reveals a person's feelings or attitude;
(in chemistry) a process in which one or more
substances are changed into others
synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**
There was a chemical **reaction** of the lime with the
groundwater.

ph

n. a measure of the acidity or alkalinity of a substance, on
a scale of 0 to 14, with seven being neutral, lower values
indicating greater acidity, and higher values indicating
greater alkalinity
synonym : acidity, alkalinity, balance

(1) **pH** value of seven, (2) **ph** scale
The **ph** level of this soil is too acidic for these types of plants.

acidity

n. the level of acid content in a substance or environment;
the quality of being sour or tart; sharpness or harshness
in taste or manner
synonym : sourness, tartness, acridity

(1) high **acidity** level, (2) the **acidity** of the wine
The soil's **acidity** was too high for the plants to grow
correctly.

process

n. a series of actions or operations performed to achieve a
particular outcome or goal; a systematic procedure or
approach used to accomplish a specific task or
objective; a method of treating milk to make it suitable
for consumption or use in other dairy products
synonym

: procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully

They used a special receiver to **monitor** police radio channels.

steady

adj. firmly fixed, supported, or balanced; not shaking or moving

synonym: stable, solid, secure

(1) **steady** increase, (2) take a **steady** job

The patient's vital signs are **steady**, indicating a stable condition.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym: attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

underneath

adv. under or below something else

synonym: below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

marine

adj. relating to the sea and the creatures and plants that live there

synonym: sea-dwelling, maritime, aquatic

(1) **marine** insurance, (2) variety of **marine** life

Seals and whales are **marine** animals beloved by the people.

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

Atlantic

adj. relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east

(1) **Atlantic** breeze, (2) **Atlantic** salmon

The **Atlantic** hurricane season runs from June to November each year.

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.

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym: apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

mount

v. to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for

execution or performance; to ride on something or someone

synonym: climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

surrounding

adj. that is near or around, or closely encircling something

synonym: circumferent, encircling, neighboring

(1) **surrounding** areas, (2) a fence **surrounding** a castle

The **surrounding** mountains make the city difficult to be invaded.

temperature

n. the degree of hotness or coldness of a thing or place

synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric

temperature

Cities around the world set records for highest **temperatures** this summer.

continental

adj. of or relating to a continent (= one of the earth's large landmasses)

synonym: mainland, intercontinental, transcontinental

(1) **continental** divide, (2) polar **continental** air

The **continental** breakfast at the hotel was included with the room.

interval

n. a period between two events or times; a short break or pause

synonym: break, gap, intermission

(1) after an **interval** of pause, (2) at regular **intervals**

For the analysis **interval**, the system remains at a standstill state.

deck

n. a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other

structure

synonym : platform, veranda, patio

(1) **deck** chairs, (2) hands on **deck**

She sat on the ship's **deck**, watching the sunset over the ocean.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym : explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym : lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a **laboratory**.

parameter

n. a numerical or other measurable factors that characterize a system or set of data

synonym : factor, variable, characteristic

(1) **parameter** estimation, (2) **parameter** tuning

The temperature range was one of the critical **parameters** we had to consider when designing the experiment.

industrial

adj. of or relating to or resulting from industry

synonym : manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

Industrial design has become more focused on human nature aspect than ever before.

emission

n. the act of production or sending out gas, heat, light, etc.
synonym : emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

lifetime

n. the duration of someone's life or something's existence;
synonym : lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

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.

mass

n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym : abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

extinction

n. the complete disappearance of a species from the earth

synonym : disappearance, eradication, annihilation

(1) **extinction** prevention, (2) brink of **extinction**

The **extinction** of the dinosaurs is thought to have been caused by an asteroid impact.

negative

adj. having the quality of something bad or harmful; expressing refusal

synonym : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

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**.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
(1) **ion** channel, (2) rechargeable lithium- **ion** battery
The increased concentration of **ion** of hydrogen ions in an aqueous solution makes it more acidic.

shell

n. hard outer covering or case of eggs, nuts, some seeds, and some animals
synonym: ammunition, armor, cover
(1) an egg **shell**, (2) a mollusk **shell**
The outermost electron **shell** determines the chemical properties of an atom.

crab

n. a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing
synonym: crustacean, shellfish, crusty
(1) **crab** cakes, (2) **crab** legs
I ordered a plate of fresh **crab** at the seafood restaurant.

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.

coral

n. a rock-like substance created in the sea by groupings of specific types of small animals, commonly used in jewelry

(1) **coral** island, (2) **coral** ornament

She is wearing a **coral** necklace.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

reef

n. a long chain or range of rocks or sand near the ocean's surface

(1) barrier **reef**, (2) coral **reefs**

The vessel ran aground on a **reef**.

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.

butterfly

n. a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings

(1) **butterfly** effect, (2) the life cycle of a **butterfly**

He enjoys collecting **butterfly** specimens.

- 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.
- salmon** *n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
synonym : fish, trout, salmonid
(1) **salmon** fishery, (2) **salmon** migration
Grilled **salmon** is a popular dish at summer barbecues.
- whale** *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
synonym : porpoise, giant
(1) a bull **whale**, (2) **whale** watching
Some countries have a culture of eating the flesh of a **whale**.
- realistic** *adj.* having or showing a sensible and practical idea that is possible to achieve
synonym : practical, pragmatic, down-to-earth
(1) a **realistic** goal, (2) a **realistic** goal
That story was so **realistic**, and it was scary.
- chain** *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
synonym : series, string, link
(1) **chain** reaction, (2) supply **chain**
The **chain** on my bike broke, leaving me stranded.
- 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.

biodiversity

n. the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment

(1) **biodiversity** conservation, (2) loss of **biodiversity**

The country was instrumental in promoting the **biodiversity** treaty.

fishery

n. an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish

synonym: fishing, piscary, angling

(1) **fishery** management, (2) commercial **fishery**

The majority of the people on the island are **fishery** folk.

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

threat

n. a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

synonym: menace, danger, hazard

(1) economic **threat**, (2) environmental **threat**

The **threat** of severe weather prompted the city to issue an evacuation warning.

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.

scenario

n. a description of possible actions or events in the future; a written outline of a play, film, or literary work

synonym : plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different **scenarios**

The president prepared several possible **scenarios** for an enemy attack.

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.

government

n. the group of people with authority to control a country or state

synonym : administration, regime, state

(1) **government** bureaucracy, (2) **government** funding

The federal **government** is planning to increase taxes for the next fiscal year.

maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym : preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

Session 2: Spelling

- | | |
|---------------------------------------|---|
| 1. gov_____nt funding | <i>n.</i> the group of people with authority to control a country or state |
| 2. a stone wall su_____nds the palace | <i>v.</i> to be all around something or somebody |
| 3. a cold cl_____e | <i>n.</i> the weather in a particular location averaged over some long period |
| 4. decision-making pr_____s | <i>n.</i> a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products |
| 5. 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 |
| 6. e__t air pollution | <i>v.</i> to give off or send out something such as light, heat, sound, gas, etc. |
| 7. barrier r__f | <i>n.</i> a long chain or range of rocks or sand near the ocean's surface |
| 8. mo_____r an exam | <i>v.</i> to observe, check, and track the progress or quality of something over a period of time |
| 9. a convivial atm_____re | <i>n.</i> the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work |

ANSWERS: 1. government, 2. surround, 3. climate, 4. process, 5. dissolve, 6. emit, 7. reef, 8. monitor, 9. atmosphere

10. research in _____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
11. mo__t a counterattack *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
12. the life cycle of a bu_____ly *n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings
13. mo_____te growth *adj.* being within reasonable limits; not excessive or extreme
14. d__k chairs *n.* a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
15. his research area of
con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
16. mu___l shells *n.* a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible
17. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
18. ch__n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

ANSWERS: 10. institute, 11. mount, 12. butterfly, 13. moderate, 14. deck, 15. concentration, 16. mussel, 17. maintain, 18. chain

19. high ac____y level *n.* the level of acid content in a substance or environment; the quality of being sour or tart; sharpness or harshness in taste or manner
20. rechargeable lithium-i_n battery *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
21. li_____me ban from the sport *n.* the duration of someone's life or something's existence;
22. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
23. pa_____er estimation *n.* a numerical or other measurable factors that characterize a system or set of data
24. dr__d getting old *v.* to be very afraid of or worried about something that is going to happen or that might happen
25. sodium ca_____te *n.* a carbonic acid salt or ester that contains the anion CO₃
26. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
27. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
28. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.

ANSWERS: 19. acidity, 20. ion, 21. lifetime, 22. structure, 23. parameter, 24. dread, 25. carbonate, 26. instrument, 27. analyze, 28. concentration

29. e__t a gamma ray
v. to give off or send out something such as light, heat, sound, gas, etc.
30. me_____al chemistry
adj. of or relating to the treatment or cure of disease
31. a t__n-lens camera
n. either of two children born at the same time from the same mother
32. chemical re_____on
n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
33. pt_____od shell
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
34. e__l ways
adj. profoundly immoral, cruel, and wicked; having or exerting a harmful effect on people
35. p__p blood throughout the body
v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
36. co_____de with reality
v. to take place at or near the same time
37. toxic ch_____als
adj. relating to or connected with chemistry;
38. a bull wh__e
n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

ANSWERS: 29. emit, 30. medicinal, 31. twin, 32. reaction, 33. pteropod, 34. evil, 35. pump, 36. coincide, 37. chemical, 38. whale

39. v__t majority *adj.* enormous in size, number, amount, or quantity
40. mu___l cultivation *n.* a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible
41. se_____er pollution *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
42. a ne_____ve number *adj.* having the quality of something bad or harmful; expressing refusal
43. sa___n migration *n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
44. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
45. bio_____ity conservation *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
46. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
47. pa_____er tuning *n.* a numerical or other measurable factors that characterize a system or set of data
48. take a st___y job *adj.* firmly fixed, supported, or balanced; not shaking or moving

ANSWERS: 39. vast, 40. mussel, 41. seawater, 42. negative, 43. salmon, 44. oxygen, 45. biodiversity, 46. carbon, 47. parameter, 48. steady

49. a fence sur_____ng a castle *adj.* that is near or around, or closely encircling something
50. polar con_____al air *adj.* of or relating to a continent (= one of the earth's large landmasses)
51. mo_____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
52. commercial fi_____y *n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish
53. fi_____y management *n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish
54. brink of ext_____on *n.* the complete disappearance of a species from the earth
55. number of different sc_____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
56. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
57. con_____al divide *adj.* of or relating to a continent (= one of the earth's large landmasses)
58. eat kr__l *n.* a small, shrimp-like crustacean that is a major food source for many marine animals
59. coral r__fs *n.* a long chain or range of rocks or sand near the ocean's surface
60. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 49. surrounding, 50. continental, 51. monitor, 52. fishery, 53. fishery, 54. extinction, 55. scenario, 56. analyze, 57. continental, 58. krill, 59. reef, 60. chemistry

61. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
62. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
63. supply ch___n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
64. have a ne_____ve effect *adj.* having the quality of something bad or harmful; expressing refusal
65. traditional me_____al *adj.* of or relating to the treatment or cure of disease
66. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
67. c__b cakes *n.* a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing
68. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
69. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 61. planet, 62. protein, 63. chain, 64. negative, 65. medicinal, 66. scenario, 67. crab, 68. chemistry, 69. greenhouse

70. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
71. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
72. partly co_____de *v.* to take place at or near the same time
73. ca_____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
74. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
75. gov_____nt bureaucracy *n.* the group of people with authority to control a country or state
76. 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
77. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
78. a charm against e__l *adj.* profoundly immoral, cruel, and wicked; having or exerting a harmful effect on people

ANSWERS: 70. institute, 71. reaction, 72. coincide, 73. carbon, 74. pump, 75. government, 76. dissolve, 77. structure, 78. evil

79. ind_____al alcohol *adj.* of or relating to or resulting from industry
80. 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
81. at regular in_____als *n.* a period between two events or times; a short break or pause
82. the ac_____y of the wine *n.* the level of acid content in a substance or environment; the quality of being sour or tart; sharpness or harshness in taste or manner
83. bu_____ly effect *n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings
84. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
85. ab___b energy *v.* to take in a fluid or other substance gradually
86. edible sh_____sh *n.* water creatures that live in shells, especially one of the types that can be eaten
87. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
88. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 79. industrial, 80. oyster, 81. interval, 82. acidity, 83. butterfly, 84. industrial, 85. absorb, 86. shellfish, 87. atmosphere, 88. process

89. an egg sh__l *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
90. 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
91. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
92. aci_____ion of soil *n.* the act or process of becoming acid or making something become acid
93. At___ic salmon *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
94. economic th___t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation
95. ab___b a shock *v.* to take in a fluid or other substance gradually
96. alkaline ca_____te *n.* a carbonic acid salt or ester that contains the anion CO₃
97. after an in___al of pause *n.* a period between two events or times; a short break or pause

ANSWERS: 89. shell, 90. stormy, 91. planet, 92. acidification, 93. Atlantic, 94. threat, 95. absorb, 96. carbonate, 97. interval

98. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
99. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
100. a re_____ic goal *adj.* having or showing a sensible and practical idea that is possible to achieve
101. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
102. sh_____sh allergy *n.* water creatures that live in shells, especially one of the types that can be eaten
103. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
104. un_____o surgery *v.* to go through something unpleasant or that involves a change
105. loss of bio_____ity *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
106. sur_____ng areas *adj.* that is near or around, or closely encircling something
107. a t__n room *n.* either of two children born at the same time from the same mother
108. variety of ma___e life *adj.* relating to the sea and the creatures and plants that live there
109. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab

ANSWERS: 98. greenhouse, 99. climate, 100. realistic, 101. emission, 102. shellfish, 103. laboratory, 104. undergo, 105. biodiversity, 106. surrounding, 107. twin, 108. marine, 109. laboratory

110. ind_____us student *adj.* hardworking, diligent, and persistent in effort
111. a ch_____al compound *adj.* relating to or connected with chemistry;
112. 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
113. stream aci_____ion *n.* the act or process of becoming acid or making something become acid
114. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
115. pH value of seven *n.* a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity
116. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
117. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
118. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
119. pr_____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

ANSWERS: 110. industrious, 111. chemical, 112. oyster, 113. acidification, 114. oxide, 115. ph, 116. maintain, 117. temperature, 118. emission, 119. protein

120. co__l island *n.* a rock-like substance created in the sea by groupings of specific types of small animals, commonly used in jewelry
121. und_____th the laughter *adv.* under or below something else
122. st___y increase *adj.* firmly fixed, supported, or balanced; not shaking or moving
123. co__l ornament *n.* a rock-like substance created in the sea by groupings of specific types of small animals, commonly used in jewelry
124. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
125. li_____me benefits *n.* the duration of someone's life or something's existence;
126. ma___e insurance *adj.* relating to the sea and the creatures and plants that live there
127. critical m__s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
128. dr__d failure *v.* to be very afraid of or worried about something that is going to happen or that might happen
129. v__t desert *adj.* enormous in size, number, amount, or quantity
130. wh__e watching *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

ANSWERS: 120. coral, 121. underneath, 122. steady, 123. coral, 124. instrument, 125. lifetime, 126. marine, 127. mass, 128. dread, 129. vast, 130. whale

131. und_____th the surface of the water
adv. under or below something else
132. un_____o a decrease
v. to go through something unpleasant or that involves a change
133. a m__s of molten rock
n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
134. ext_____on prevention
n. the complete disappearance of a species from the earth
135. mo_____te risk
adj. being within reasonable limits; not excessive or extreme
136. ph scale
n. a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity
137. i_n channel
n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
138. c__b legs
n. a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing
139. hands on d__k
n. a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
140. 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

ANSWERS: 131. underneath, 132. undergo, 133. mass, 134. extinction, 135. moderate, 136. ph, 137. ion, 138. crab, 139. deck, 140. stormy

141. At____ic breeze *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
142. se_____er bacteria *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
143. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
144. lack of ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
145. mo__t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
146. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
147. a mollusk sh__l *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
148. environmental th____t *n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

ANSWERS: 141. Atlantic, 142. seawater, 143. industrious, 144. oxygen, 145. mount, 146. oxide, 147. shell, 148. threat

149. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
150. Antarctic kr__l *n.* a small, shrimp-like crustacean that is a major food source for many marine animals
151. su_____nd a town *v.* to be all around something or somebody
152. sa___n fishery *n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
153. 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

ANSWERS: 149. temperature, 150. krill, 151. surround, 152. salmon, 153. pteropod

Session 3: Fill in the Blanks

1. 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

2. These results _____ with our hypothesis.
 - v.* to take place at or near the same time

3. Seals and whales are _____ animals beloved by the people.
 - adj.* relating to the sea and the creatures and plants that live there

4. The _____ effect is a phenomenon that happens naturally.
 - n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

5. He was alert and could not _____ any critical information out of him.
 - v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

6. The majority of the people on the island are _____ folk.
 - n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish

7. He enjoys collecting _____ specimens.
 - n.* a diurnal insect typically has a slender body with knobbed antennae and broad, colorful wings

ANSWERS: 1. krill, 2. coincide, 3. marine, 4. greenhouse, 5. pump, 6. fishery, 7. butterfly

8. Ocean _____ leads to a decrease in tiny sea snails.
n. the act or process of becoming acid or making something become acid
9. He had a _____ understanding of the topic but needed further research.
adj. being within reasonable limits; not excessive or extreme
10. The explosive chemical reaction does not occur in all sodium _____.
n. a carbonic acid salt or ester that contains the anion CO₃
11. She sat on the ship's _____ watching the sunset over the ocean.
n. a flat surface that is usually made of wood or other material and is attached to a building, vehicle, or other structure
12. The _____ mountains make the city difficult to be invaded.
adj. that is near or around, or closely encircling something
13. The _____ of people who do not own property is politically impotent.
n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
14. On three sides, mountains _____ the settlement.
v. to be all around something or somebody
15. During the unloading, the container box _____ a clicking sound.
v. to give off or send out something such as light, heat, sound, gas, etc.
16. 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

ANSWERS: 8. acidification, 9. moderate, 10. carbonate, 11. deck, 12. surrounding, 13. mass, 14. surround, 15. emits, 16. seawater

17. 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
18. This exam requires excellent _____ to pass.
- n.* the ability to focus all your time and energy on one thing without thinking about anything else.
19. The temperature range was one of the critical _____ we had to consider when designing the experiment.
- n.* a numerical or other measurable factors that characterize a system or set of data
20. The spaceship began to burn up as it approached the Earth's _____.
- n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
21. _____ can cause allergic reactions in certain people.
- n.* water creatures that live in shells, especially one of the types that can be eaten
22. He is familiar with _____ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
23. The patient's vital signs are _____ indicating a stable condition.
- adj.* firmly fixed, supported, or balanced; not shaking or moving
24. The president prepared several possible _____ for an enemy attack.
- n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work

ANSWERS: 17. oysters, 18. concentration, 19. parameters, 20. atmosphere, 21. Shellfish, 22. chemistry, 23. steady, 24. scenarios

25. I need to _____ my car regularly to prevent any major mechanical issues.
- v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
26. Corruption is an _____ act for any reason.
- adj.* profoundly immoral, cruel, and wicked; having or exerting a harmful effect on people
27. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.
- n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
28. A _____ audience viewed the broadcast.
- adj.* enormous in size, number, amount, or quantity
29. The _____ of the dinosaurs is thought to have been caused by an asteroid impact.
- n.* the complete disappearance of a species from the earth
30. For the analysis _____ the system remains at a standstill state.
- n.* a period between two events or times; a short break or pause
31. Mercury is the closest _____ to the sun.
- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
32. The soil's _____ was too high for the plants to grow correctly.
- n.* the level of acid content in a substance or environment; the quality of being sour or tart; sharpness or harshness in taste or manner

ANSWERS: 25. maintain, 26. evil, 27. ion, 28. vast, 29. extinction, 30. interval, 31. planet, 32. acidity

33. The country was instrumental in promoting the _____ treaty.
- n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
34. This electronic _____ is required to undergo periodic inspections to ensure precision.
- n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
35. The organizational _____ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
36. The vessel ran aground on a _____.
- n.* a long chain or range of rocks or sand near the ocean's surface
37. There are five distinct _____ at five unique wavelengths.
- n.* the act of production or sending out gas, heat, light, etc.
38. 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
39. _____ design has become more focused on human nature aspect than ever before.
- adj.* of or relating to or resulting from industry
40. They used a special receiver to _____ police radio channels.
- v.* to observe, check, and track the progress or quality of something over a period of time

ANSWERS: 33. biodiversity, 34. instrument, 35. structure, 36. reef, 37. emissions, 38. mussels, 39. Industrial, 40. monitor

41. She is wearing a _____ necklace.

- n.* a rock-like substance created in the sea by groupings of specific types of small animals, commonly used in jewelry

42. Cities around the world set records for highest _____ this summer.

- n.* the degree of hotness or coldness of a thing or place

43. The train has to _____ rigorous safety checks.

- v.* to go through something unpleasant or that involves a change

44. She had lived through two world wars in her _____.

- n.* the duration of someone's life or something's existence;

45. Its _____ brothers are difficult to tell apart except for their parents.

- n.* either of two children born at the same time from the same mother

46. The _____ for applying for a visa can be lengthy and complicated.

- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

47. Some countries have a culture of eating the flesh of a _____.

- n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

48. The _____ on my bike broke, leaving me stranded.

- n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

ANSWERS: 41. coral, 42. temperatures, 43. undergo, 44. lifetime, 45. twin, 46. process, 47. whale, 48. chain

49. 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
50. That story was so _____ and it was scary.
- adj.* having or showing a sensible and practical idea that is possible to achieve
51. Grilled _____ is a popular dish at summer barbecues.
- n.* a type of fish that is commonly found in the North Atlantic and North Pacific oceans
52. 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
53. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
54. They _____ pictures on the paper in preparation for the birthday card.
- v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
55. I ordered a plate of fresh _____ at the seafood restaurant.
- n.* a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing
56. The _____ of severe weather prompted the city to issue an evacuation warning.
- n.* a strong indication or likelihood of harm, danger, or adverse consequences; an expression of intent to inflict harm or injury on someone or something, often made as a means of coercion or intimidation

ANSWERS: 49. pteropod, 50. realistic, 51. salmon, 52. dissolved, 53. analyze, 54. mounted, 55. crab, 56. threat

57. Trees absorb _____ dioxide and give off oxygen.

- n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

58. The penny fell _____ the piano.

- adv.* under or below something else

59. The passenger grabbed for the _____ mask.

- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

60. There was a chemical _____ of the lime with the groundwater.

- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

61. The sponge _____ water well.

- v.* to take in a fluid or other substance gradually

62. The outermost electron _____ determines the chemical properties of an atom.

- n.* hard outer covering or case of eggs, nuts, some seeds, and some animals

63. 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

64. The firm has grown into a large _____ manufacturing.

- adj.* relating to or connected with chemistry;

65. Animal protection groups call for an end to animal testing in a _____.

- n.* a workplace for doing scientific research or teaching science; a lab

ANSWERS: 57. carbon, 58. underneath, 59. oxygen, 60. reaction, 61. absorbs, 62. shell, 63. dread, 64. chemical, 65. laboratory

66. 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

67. The federal _____ is planning to increase taxes for the next fiscal year.

n. the group of people with authority to control a country or state

68. _____ and weather have an impact on every part of our lifestyles.

n. the weather in a particular location averaged over some long period

69. The _____ breakfast at the hotel was included with the room.

adj. of or relating to a continent (= one of the earth's large landmasses)

70. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

71. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

72. The body needs a certain amount of _____ to build and repair tissues.

n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

73. The ___ level of this soil is too acidic for these types of plants.

n. a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity

ANSWERS: 66. stormy, 67. government, 68. Climate, 69. continental, 70. industrious, 71. medicinal, 72. protein, 73. ph

74. The movie has received almost universally _____ criticism.

adj. having the quality of something bad or harmful; expressing refusal

75. The blood's red coloring comes from iron _____.

n. a chemical compound that contains at least one oxygen atom and one other element

76. This region has many _____ offering higher education.

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

77. The _____ hurricane season runs from June to November each year.

adj. relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east

ANSWERS: 74. negative, 75. oxide, 76. institutes, 77. Atlantic