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Vocabulary Builder Reference from...

Janine Benyus: Biomimicry's surprising lessons from nature's engineers | TED Talk

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

Advanced Words Only

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Session 1: Word List

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym : consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

devote

v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

synonym : commit, dedicate, apply

(1) **devote** all of my energies, (2) **devote** my own life

He **devoted** himself to studying the history of ancient civilizations.

sect

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

synonym : group, faction, cult

(1) **sect** beliefs, (2) secret **sect**

The minority **sect** believed in a set of unconventional religious practices.

critter

n. a small or unimportant creature or animal, often used in a familiar or affectionate way

synonym : animal, creature, beast

(1) cute **critter**, (2) wild **critter**

During their camping trip, the kids were excited to go **critter** hunting in the woods.

courtship

n. the period of time when two individuals go through the process of getting to know each other, often with the intent of forming a romantic or intimate relationship

synonym : romance, wooing, lovemaking

(1) traditional **courtship**, (2) romantic **courtship**

The movie depicts an old-fashioned **courtship** between the two main characters.

glacier

n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

synonym : iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

paddle

n. a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance

synonym : oar, oarlock, scull

(1) **paddle** strokes, (2) canoe **paddle**

The **paddle** boarders glided across the crystal-clear waters of the cove.

mimicry

n. the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh

synonym : imitation, apery

(1) vocal **mimicry**, (2) floral **mimicry**

Some insects use **mimicry** to avoid detection by predators.

purify

v. to remove harmful substances from something and increase the concentration of it

synonym : refine, filter, clarify

(1) **purify** hydrogen gas, (2) **purify** the blood

The equipment is frequently used to **purify** and distribute drinking water.

domesticate

v. to take control of animals or plants to provide food, power, or company

synonym: tame, naturalize, cultivate

(1) easy to **domesticate**, (2) **domesticate** the plant

We **domesticate** cows to gain milk and meat.

buildup

n. the accumulation or increase of something over time

synonym: accumulation, increase, growth

(1) lactic acid **buildup**, (2) huge military **buildup**

The **buildup** of stress over time can lead to health problems.

toxin

n. a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

synonym: poison, venom, contaminant

(1) **toxin** exposure, (2) **toxin** production

Mold exposure can release dangerous **toxins** into the air.

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**.

seashell

n. a type of shell that once housed a mollusk, typically found on beaches or in shallow water

synonym: shell, conch, bivalve

(1) **seashell** ornament, (2) a fossil **seashell**

I love collecting **seashells** on the beach and displaying them in a jar at home.

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.

crystallize

v. to form crystals from a liquid or solution; to become clear or definite in form or structure; to solidify

synonym: solidify, freeze, shape up

(1) **crystallize** a concept, (2) **crystallize** into reality

As the sugar water cools, it will slowly **crystallize** into rock candy.

silo

n. a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others

synonym: storage, warehouse, barn

(1) nuclear **silo**, (2) **silo** organization

The farmer used a **silo** to store feed for the animals.

exude

v. to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way

synonym: emit, ooze, radiate

(1) **exude** confidence, (2) **exude** charm

The flowers **exude** a sweet fragrance.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

aft

adj. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

(1) **aft** cabin, (2) **aft** view

The **aft** section of the ship suffered significant damage after

the collision with the reef.

snorkel

n. a tube-like device used for breathing underwater, with one end in the mouth and the other above the surface of the water

synonym : tube, breather

(1) **snorkel** gear, (2) scuba **snorkel**

The **snorkel** rental shop provided us with a map of the nearby snorkel sites.

ventral

adj. relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal

synonym : abdominal, ventricose, stomachal

(1) **ventral** fin, (2) **ventral** hernia

The **ventral** side of the fish was beautifully colored.

emulate

v. to imitate someone else's achievements to try to do something as well as somebody else

synonym : impersonate, mimic, imitate

(1) **emulate** a successful business model, (2) **emulate** his watercolors

They intend to **emulate** the footsteps of successful software companies.

slavish

adj. overly submissive or obedient, often to an excessive or servile degree; lacking independence or originality; unquestioningly following or imitating something or someone

synonym : servile, obedient, submissive

(1) **slavish** mirror of the original, (2) **slavish** loyalty

She was tired of the **slavish** adherence to outdated traditions in her workplace.

hairdo

n. a particular way of arranging or styling one's hair; a hairstyle

synonym : hairstyle, coiffure, updo

(1) casual **hairdo**, (2) bridal **hairdo**

The hairstylist created a stunning **hairdo** for the bride on her wedding day.

carcinogenic

adj. capable of causing cancer or promoting tumor growth; cancer-causing

synonym: cancer-causing, cancerous, malignant

(1) **carcinogenic** chemicals, (2) **carcinogenic** air pollution

Long-term exposure to **carcinogenic** materials can result in serious health problems.

snuff

n. finely ground tobacco that is inhaled through the nose as a form of tobacco use; a type of scented tobacco that is often used for aromatic purposes in candles or incense; (verb) to extinguish or put out

synonym: tobacco, powder, dust

(1) **snuff** out the candle, (2) flavored **snuff**

He reached into his pocket and pulled out a small silver **snuff** box.

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.

carving

n. the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

synonym: cutting, engraving, sculpture

(1) a wood **carving**, (2) **carving** instrument

The intricate **carving** on the wooden box was the work of a master craftsman.

geranium

n. a flowering plant of the genus *Geranium*, often cultivated for its attractive, brightly colored flowers and commonly used in gardens or as decorative houseplants

(1) fragrant **geranium**, (2) potted **geranium**

The vibrant red **geraniums** added a pop of color to the garden.

pollen

n. a fine powder substance consisting of microscopic grains produced by plants that facilitate their reproductive process through the process of pollination
synonym: dust, spores, allergen

(1) **pollen** allergy symptoms, (2) high **pollen** count

My allergies flare up during **pollen** season, making it difficult to breathe.

tumble

v. to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance

synonym: fall, stumble, plummet

(1) **tumble** down the hill, (2) confidence **tumbles** as unemployment rates rose

The value of the currency **tumbled** against major international currencies.

junction

n. a critical point or moment in time, often indicating a key decision or turning point; a place or point of connection, such as a joint or seam

synonym: turning point, crossroads, crisis

(1) the **junction** of Eastern and Western cultures,

(2) decisive **junction**

At this **junction** in the project, we must reassess our plans and make some changes.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

kiln

n. an oven or furnace used for baking, drying, or firing clay, pottery, bricks, or other materials; typically made of brick

or refractory material and heated with wood, coal, or gas
synonym : oven, furnace, hearth

(1) brick **kiln**, (2) electric **kiln**

The pottery was fired in the **kiln** for several hours to harden it.

evaporation

n. the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources

synonym : vaporization, dehydration, desiccation

(1) **evaporation** cooling, (2) slow **evaporation**

The formation of clouds is facilitated by the process of **evaporation** and condensation

jigsaw

n. a tool with a fine-toothed blade used for cutting intricate curves and patterns in thin material such as wood or metal, typically with the blade being reciprocating; a type of puzzle that consists of irregularly shaped pieces that must be fitted together to form a complete picture

synonym : fretsaw, puzzle

(1) **jigsaw** puzzle, (2) **jigsaw** woodworking

The **jigsaw** blade needs to be changed before we can continue the project.

diatom

n. a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope

synonym : algae, phytoplankton

(1) **diatom** species, (2) freshwater **diatoms**

Diatom fossils can tell us a lot about the history and environment of the oceans.

silicate

n. a mineral compound containing silicon, oxygen, and one or more metal elements, commonly found in rocks and minerals; a type of chemical compound that forms the basis of many minerals

synonym : mineral, compound, rock

(1) crystal **silicate**, (2) **silicate-based** materials

The compound contains a high **silicate** concentration, making it ideal for industrial applications.

mineralize

v. to convert or incorporate minerals into something, such as water, soil, or organic matter; to transform organic materials into a mineral form, often through natural processes

synonym : crystallize, fossilize, petrify

(1) **mineralize** bones, (2) **mineralize** toxins in the soil

The new soil treatment will help **mineralize** the nutrients, making them more accessible to the plants.

brittle

adj. easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile

synonym : fragile, breakable, delicate

(1) **brittle** bones, (2) **brittle** material

The old books in the library were so **brittle** that they crumbled upon touch.

lucent

adj. giving off or reflecting light; glowing; shining; translucent or clear in appearance

synonym : bright, glowing, radiant

(1) **lucent** crystals, (2) soft **lucent** light

The sunset painted the sky in a **lucent** orange and purple glow.

sponge

n. a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning

(1) sea **sponge**, (2) metallic **sponge**

The tiny marine **sponge** has existed for more than 500 million years.

feedstock

n. the raw material or substances that are used to make a product, particularly in industrial or manufacturing

processes

synonym : raw material, input, supply

(1) **feedstock** supply, (2) **feedstock** procurement

Corn is a common **feedstock** for ethanol production.

starch

n. a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals

synonym : carbohydrate, glucose, dextrin

(1) **starch** granules, (2) potato **starch**

When heated, **starch** molecules absorb water and become thick and gooey, making it a useful thickening agent in cooking.

biodegrade

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

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

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

nitrogenase

n. an enzyme found in certain bacteria that is responsible for the biological fixation of atmospheric nitrogen into forms that can be used by plants and other organisms

synonym : nitrogen-fixing enzyme

(1) **nitrogenase** activity, (2) **nitrogenase** gene

The **nitrogenase** enzyme requires a lot of energy to function properly.

proton

n. a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

(1) **proton** decay, (2) **proton** conductivity

The solar wind is composed almost entirely of electrons and **protons**.

anode

n. the positively charged electrode by which electrons enter an electrical device, such as a battery or an electrolytic cell; the electrode at which oxidation occurs

synonym : cathode, electrode, plate

(1) **anode** material, (2) **anode** plate

The battery's **anode** needs to be replaced for it to function properly.

reversible

adj. capable of being turned or done in the opposite direction or way; capable of being reversed or undone

synonym : invertible, changeable, undoable

(1) **reversible** decision, (2) **reversible** fabrics

The jacket is **reversible** so that you can wear it with the fur lining on the outside or the inside.

juggle

v. to manage or cope with several tasks, responsibilities, or situations simultaneously; to keep several things in the air at once, as in a juggling act

synonym : jiggle, balance, handle

(1) **juggle** a job and motherhood, (2) **juggle** with facts

It can be difficult to **juggle** work, family, and social life, but finding balance is important.

pigment

n. a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced

synonym : dye, colorant, tint

(1) skin **pigment**, (2) **pigment** accumulation

The use of synthetic **pigments** in food production has become controversial due to health concerns.

peacock

n. a large, colorful, and majestic bird of the pheasant family

(1) as proud as a **peacock**, (2) male **peacock**

The vibrant feathers of the **peacock** made it stand out in the garden.

lotus

n. a type of aquatic plant with large, round, floating leaves and distinctive flowers, often associated with spiritual symbolism and cultural significance in Asia

synonym : water lily, lily pad, nelumbo

(1) **lotus** fragrance, (2) **lotus** petals

The serene pond was adorned with beautiful **lotus** flowers.

facade

n. the face or front of a building, especially a large one; superficial or false appearance intended to conceal something unpleasant

synonym : front, camouflage, masquerade

(1) the outside **facade** of a castle, (2) **facade** of wealth

A gentle **facade** concealed his powerfulness.

rainwater

n. water that falls from the clouds in the form of rain and is collected

synonym : precipitation, drizzle, showers

(1) **rainwater** acidity, (2) **rainwater** drainage

The company installed a **rainwater** harvesting system to collect and reuse it for manufacturing.

quench

v. to drink liquid so that you satisfy your thirst

synonym : satisfy, sate, assuage

(1) **quench** a fire, (2) **quench** a rebellion

Her beautiful voice **quenched** the thirst of an ever-growing audience.

thirst

n. a feeling of needing something to drink; a strong desire for something

synonym : craving, desire, appetite

(1) a burning **thirst**, (2) **thirst** for authority

He read books to quench his **thirst** for knowledge.

beetle

n. an insect having a hard shell-like back covering its wings

(1) **beetle** brows, (2) a **beetle** larva

In ancient civilizations, the scarab **beetle** was worshiped as a

sacred creature.

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.

chelate

n. a chemical compound or molecule that forms a bond or coordination with a metal ion or other species, often to stabilize or enhance its properties or to facilitate transportation within a biological system

synonym: ligand, sequestering agent

(1) **chelate** complex, (2) **chelate** ligand

The **chelate** in this fertilizer enhances the absorption of nutrients by the plants.

embed

v. to fix or set firmly in a surrounding mass

synonym: entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor

The company **embedded** a tracking code in the product's packaging to monitor its shipment.

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.

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.

tardigrade

n. a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions

synonym : water bear, moss piglet

(1) tiny **tardigrade**, (2) **tardigrade** research

Scientists have studied the resilience of the **tardigrade**, also known as a water bear.

refrigeration

n. the process of cooling or freezing something, especially food, to preserve it

synonym : cooling, freezing, preservation

(1) **refrigeration** car, (2) **refrigeration** technology

The supermarket had a large **refrigeration** section with all kinds of fresh produce.

regenerate

v. to improve or renew an area, institution, system, etc., especially by making it more active or successful

synonym : renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

encase

v. to enclose or cover something in a protective or decorative layer

synonym : encircle, enclose, enclasp

(1) **encase** in glass, (2) **encase** his feet

They **encased** the fragile vase in bubble wrap to protect it during shipping.

refrigerate

v. to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation

synonym : chill, cool, freeze

(1) **refrigerate** perishable, (2) **refrigerate** medicine

We need to **refrigerate** the leftovers to keep them from spoiling.

locust

n. a type of grasshopper that can travel in large swarms and cause extensive damage to crops; can also refer to

various other insects such as cicadas or katydids

synonym : grasshopper, cicada, cricket

(1) **locust** army, (2) **locust** plague

The **locust** infestation destroyed the crops, causing widespread famine.

collide

v. to hit something violently when moving

synonym : clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair

The interests of the two countries **collide**.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym : nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

ranching

n. the practice of raising livestock, typically cattle or sheep, on large areas of land, often referred to as ranches, for meat, wool, or other products

synonym : farming, agriculture, grazing

(1) **ranching** industry, (2) cattle **ranching**

The government introduced regulations to ensure sustainable **ranching** practices.

ungulate

n. a hoofed mammal, characterized by having hooves as their primary means of support and movement, including animals such as horses, cows, deer, and giraffes

synonym : hoofed mammal

(1) **ungulate** migration pattern, (2) herbivorous **ungulate**
The safari tour allowed tourists to observe various African **ungulates** in their natural habitats.

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**.

sparkle

v. to emit or reflect bright flashes of light, especially with animation and joy

synonym: shine, glimmer, twinkle

(1) **sparkle** like a gem, (2) **sparkle** from receiving light

The diamond **sparkled** in the sunlight.

conducive

adj. tending to make something likely or possible

synonym: beneficial, advantageous, helpful

(1) **conducive** question, (2) **conducive** to growth

The quiet and peaceful environment was **conducive** to concentration and productivity.

Session 2: Spelling

1. em____e his watercolors
v. to imitate someone else's achievements to try to do something as well as somebody else
2. freshwater di___ms
n. a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope
3. potato st___h
n. a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals
4. car_____nic chemicals
adj. capable of causing cancer or promoting tumor growth; cancer-causing
5. 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
6. pi_____t accumulation
n. a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
7. sn__f out the candle
n. finely ground tobacco that is inhaled through the nose as a form of tobacco use; a type of scented tobacco that is often used for aromatic purposes in candles or incense; (verb) to extinguish or put out

ANSWERS: 1. emulate, 2. diatom, 3. starch, 4. carcinogenic, 5. dissolve, 6. pigment, 7. snuff

8. rev_____le fabrics *adj.* capable of being turned or done in the opposite direction or way; capable of being reversed or undone
9. slow eva_____on *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
10. ji____w puzzle *n.* a tool with a fine-toothed blade used for cutting intricate curves and patterns in thin material such as wood or metal, typically with the blade being reciprocating; a type of puzzle that consists of irregularly shaped pieces that must be fitted together to form a complete picture
11. ex__e charm *v.* to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way
12. ji____w woodworking *n.* a tool with a fine-toothed blade used for cutting intricate curves and patterns in thin material such as wood or metal, typically with the blade being reciprocating; a type of puzzle that consists of irregularly shaped pieces that must be fitted together to form a complete picture
13. a wood ca_____g *n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design

ANSWERS: 8. reversible, 9. evaporation, 10. jigsaw, 11. exude, 12. jigsaw, 13. carving

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|---------------------------------------|----|--|
| 14. dom_____te the plant | v. | to take control of animals or plants to provide food, power, or company |
| 15. en___e in glass | v. | to enclose or cover something in a protective or decorative layer |
| 16. en___e his feet | v. | to enclose or cover something in a protective or decorative layer |
| 17. bioplastic designed to bio_____de | v. | to decay naturally by microorganisms, such as bacteria and fungi |
| 18. bio_____de by the microorganism | v. | to decay naturally by microorganisms, such as bacteria and fungi |
| 19. lo___t army | n. | a type of grasshopper that can travel in large swarms and cause extensive damage to crops; can also refer to various other insects such as cicadas or katydids |
| 20. gl_____r retreat | n. | a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole |
| 21. ju___e with facts | v. | to manage or cope with several tasks, responsibilities, or situations simultaneously; to keep several things in the air at once, as in a juggling act |
| 22. mu___l shells | n. | a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible |
| 23. cry_____ze into reality | v. | to form crystals from a liquid or solution; to become clear or definite in form or structure; to solidify |
| 24. mi__c a human voice | v. | to imitate someone's speech, movement, or behavior, especially to make others laugh |

ANSWERS: 14. domesticate, 15. encase, 16. encase, 17. biodegrade, 18. biodegrade, 19. locust, 20. glacier, 21. juggle, 22. mussel, 23. crystallize, 24. mimic

25. tu___e down the hill *v.* to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
26. hum_____de climate change *adj.* created or produced by humans; artificial
27. traditional co_____ip *n.* the period of time when two individuals go through the process of getting to know each other, often with the intent of forming a romantic or intimate relationship
28. sl_____h mirror of the original *adj.* overly submissive or obedient, often to an excessive or servile degree; lacking independence or originality; unquestioningly following or imitating something or someone
29. s__o organization *n.* a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others
30. skin pi_____t *n.* a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
31. canoe pa___e *n.* a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance
32. vocal mi_____y *n.* the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh

ANSWERS: 25. tumble, 26. human-made, 27. courtship, 28. slavish, 29. silo, 30. pigment, 31. paddle, 32. mimicry

33. crystal si____te *n.* a mineral compound containing silicon, oxygen, and one or more metal elements, commonly found in rocks and minerals; a type of chemical compound that forms the basis of many minerals
34. ch____e ligand *n.* a chemical compound or molecule that forms a bond or coordination with a metal ion or other species, often to stabilize or enhance its properties or to facilitate transportation within a biological system
35. excite the ne____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
36. fe____ck supply *n.* the raw material or substances that are used to make a product, particularly in industrial or manufacturing processes
37. co____r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
38. a burning th____t *n.* a feeling of needing something to drink; a strong desire for something
39. qu____h a fire *v.* to drink liquid so that you satisfy your thirst
40. tar____de research *n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
41. br____e bones *adj.* easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile

ANSWERS: 33. silicate, 34. chelate, 35. neuron, 36. feedstock, 37. confer, 38. thirst, 39. quench, 40. tardigrade, 41. brittle

42. wild cr____r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
43. metallic sp____e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
44. sl____h loyalty *adj.* overly submissive or obedient, often to an excessive or servile degree; lacking independence or originality; unquestioningly following or imitating something or someone
45. ref____te perishable *v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation
46. ra____ng industry *n.* the practice of raising livestock, typically cattle or sheep, on large areas of land, often referred to as ranches, for meat, wool, or other products
47. po____n allergy symptoms *n.* a fine powder substance consisting of microscopic grains produced by plants that facilitate their reproductive process through the process of pollination
48. em____e a successful business model *v.* to imitate someone else's achievements to try to do something as well as somebody else
49. the outside fa____e of a castle *n.* the face or front of a building, especially a large one; superficial or false appearance intended to conceal something unpleasant

ANSWERS: 42. critter, 43. sponge, 44. slavish, 45. refrigerate, 46. ranching, 47. pollen, 48. emulate, 49. facade

50. ma__h bird *n.* a type of land that is always wet and has soft soil; swamp or bog
51. de___e my own life *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
52. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
53. si_____te-based materials *n.* a mineral compound containing silicon, oxygen, and one or more metal elements, commonly found in rocks and minerals; a type of chemical compound that forms the basis of many minerals
54. high po___n count *n.* a fine powder substance consisting of microscopic grains produced by plants that facilitate their reproductive process through the process of pollination
55. nuclear s__o *n.* a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others
56. romantic co_____ip *n.* the period of time when two individuals go through the process of getting to know each other, often with the intent of forming a romantic or intimate relationship
57. co_____ve to growth *adj.* tending to make something likely or possible
58. alkaline ca_____te *n.* a carbonic acid salt or ester that contains the anion CO₃

ANSWERS: 50. marsh, 51. devote, 52. opportune, 53. silicate, 54. pollen, 55. silo, 56. courtship, 57. conducive, 58. carbonate

59. st___h granules *n.* a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals
60. car_____nic air pollution *adj.* capable of causing cancer or promoting tumor growth; cancer-causing
61. be___e brows *n.* an insect having a hard shell-like back covering its wings
62. reg_____te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
63. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
64. lo___t plague *n.* a type of grasshopper that can travel in large swarms and cause extensive damage to crops; can also refer to various other insects such as cicadas or katydids
65. herbivorous un_____te *n.* a hooped mammal, characterized by having hooves as their primary means of support and movement, including animals such as horses, cows, deer, and giraffes
66. pr___n decay *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
67. soft lu___t light *adj.* giving off or reflecting light; glowing; shining; translucent or clear in appearance

ANSWERS: 59. starch, 60. carcinogenic, 61. beetle, 62. regenerate, 63. microbe, 64. locust, 65. ungulate, 66. proton, 67. lucent

68. de___e all of my energies *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
69. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
70. secret s__t *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
71. tiny tar_____de *n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
72. easy to dom_____te *v.* to take control of animals or plants to provide food, power, or company
73. electric k__n *n.* an oven or furnace used for baking, drying, or firing clay, pottery, bricks, or other materials; typically made of brick or refractory material and heated with wood, coal, or gas
74. a be___e larva *n.* an insect having a hard shell-like back covering its wings
75. sp_____e like a gem *v.* to emit or reflect bright flashes of light, especially with animation and joy
76. an__e plate *n.* the positively charged electrode by which electrons enter an electrical device, such as a battery or an electrolytic cell; the electrode at which oxidation occurs

ANSWERS: 68. devote, 69. opportune, 70. sect, 71. tardigrade, 72. domesticate, 73. kiln, 74. beetle, 75. sparkle, 76. anode

77. confidence tu___es as
unemployment rates rose
78. an___e material
79. di___m species
80. decisive ju____re
81. flavored sn___f
82. river-delta ma___h
83. se____er pollution
84. huge military bu____p
- v.* to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
- n.* the positively charged electrode by which electrons enter an electrical device, such as a battery or an electrolytic cell; the electrode at which oxidation occurs
- n.* a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope
- n.* a critical point or moment in time, often indicating a key decision or turning point; a place or point of connection, such as a joint or seam
- n.* finely ground tobacco that is inhaled through the nose as a form of tobacco use; a type of scented tobacco that is often used for aromatic purposes in candles or incense; (verb) to extinguish or put out
- n.* a type of land that is always wet and has soft soil; swamp or bog
- n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
- n.* the accumulation or increase of something over time

ANSWERS: 77. tumble, 78. anode, 79. diatom, 80. juncture, 81. snuff, 82. marsh, 83. seawater, 84. buildup

85. a_t view *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
86. un_____te migration pattern *n.* a hoofed mammal, characterized by having hooves as their primary means of support and movement, including animals such as horses, cows, deer, and giraffes
87. br_____e material *adj.* easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile
88. sodium ca_____te *n.* a carbonic acid salt or ester that contains the anion CO₃
89. ca_____g instrument *n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
90. a reg_____te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
91. bridal ha____o *n.* a particular way of arranging or styling one's hair; a hairstyle
92. the ju_____re of Eastern and Western cultures *n.* a critical point or moment in time, often indicating a key decision or turning point; a place or point of connection, such as a joint or seam
93. pu____y hydrogen gas *v.* to remove harmful substances from something and increase the concentration of it
94. fa____e of wealth *n.* the face or front of a building, especially a large one; superficial or false appearance intended to conceal something unpleasant

ANSWERS: 85. aft, 86. ungulate, 87. brittle, 88. carbonate, 89. carving, 90. regenerate, 91. hairdo, 92. juncture, 93. purify, 94. facade

95. ra_____er drainage *n.* water that falls from the clouds in the form of rain and is collected
96. to__n production *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
97. floral mi_____y *n.* the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh
98. ve_____l fin *adj.* relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
99. lo__s petals *n.* a type of aquatic plant with large, round, floating leaves and distinctive flowers, often associated with spiritual symbolism and cultural significance in Asia
100. co_____ve question *adj.* tending to make something likely or possible
101. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
102. cute cr_____r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
103. qu___h a rebellion *v.* to drink liquid so that you satisfy your thirst
104. ch_____e complex *n.* a chemical compound or molecule that forms a bond or coordination with a metal ion or other species, often to stabilize or enhance its properties or to facilitate transportation within a biological system

ANSWERS: 95. rainwater, 96. toxin, 97. mimicry, 98. ventral, 99. lotus, 100. conducive, 101. dissolve, 102. critter, 103. quench, 104. chelate

105. pr___n conductivity *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
106. se_____ll ornament *n.* a type of shell that once housed a mollusk, typically found on beaches or in shallow water
107. ref_____ion technology *n.* the process of cooling or freezing something, especially food, to preserve it
108. ra_____er acidity *n.* water that falls from the clouds in the form of rain and is collected
109. mu___l cultivation *n.* a type of shellfish that lives in freshwater or saltwater has a hard, elongated shell and is edible
110. lu___t crystals *adj.* giving off or reflecting light; glowing; shining; translucent or clear in appearance
111. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
112. em__d scripts in the message *v.* to fix or set firmly in a surrounding mass
113. ref_____ion car *n.* the process of cooling or freezing something, especially food, to preserve it
114. a_t cabin *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
115. ju___e a job and motherhood *v.* to manage or cope with several tasks, responsibilities, or situations simultaneously; to keep several things in the air at once, as in a juggling act

ANSWERS: 105. proton, 106. seashell, 107. refrigeration, 108. rainwater, 109. mussel, 110. lucent, 111. mimic, 112. embed, 113. refrigeration, 114. aft, 115. juggle

116. pu___y the blood *v.* to remove harmful substances from something and increase the concentration of it
117. scuba sn_____l *n.* a tube-like device used for breathing underwater, with one end in the mouth and the other above the surface of the water
118. rev_____le decision *adj.* capable of being turned or done in the opposite direction or way; capable of being reversed or undone
119. min_____ze bones *v.* to convert or incorporate minerals into something, such as water, soil, or organic matter; to transform organic materials into a mineral form, often through natural processes
120. fe_____ck procurement *n.* the raw material or substances that are used to make a product, particularly in industrial or manufacturing processes
121. the worst hum_____de disaster *adj.* created or produced by humans; artificial
122. cry_____ze a concept *v.* to form crystals from a liquid or solution; to become clear or definite in form or structure; to solidify
123. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
124. nit_____se activity *n.* an enzyme found in certain bacteria that is responsible for the biological fixation of atmospheric nitrogen into forms that can be used by plants and other organisms

ANSWERS: 116. purify, 117. snorkel, 118. reversible, 119. mineralize, 120. feedstock, 121. human-made, 122. crystallize, 123. nanoscale, 124. nitrogenase

125. co____e in midair *v.* to hit something violently when moving
126. ve____l hernia *adj.* relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
127. sn____l gear *n.* a tube-like device used for breathing underwater, with one end in the mouth and the other above the surface of the water
128. em__d a sensor *v.* to fix or set firmly in a surrounding mass
129. eva_____on cooling *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
130. to__n exposure *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
131. lactic acid bu____p *n.* the accumulation or increase of something over time
132. lo__s fragrance *n.* a type of aquatic plant with large, round, floating leaves and distinctive flowers, often associated with spiritual symbolism and cultural significance in Asia
133. brick k__n *n.* an oven or furnace used for baking, drying, or firing clay, pottery, bricks, or other materials; typically made of brick or refractory material and heated with wood, coal, or gas

ANSWERS: 125. collide, 126. ventral, 127. snorkel, 128. embed, 129. evaporation, 130. toxin, 131. buildup, 132. lotus, 133. kiln

134. male pe____k *n.* a large, colorful, and majestic bird of the pheasant family
135. co____e head-on *v.* to hit something violently when moving
136. nit____se gene *n.* an enzyme found in certain bacteria that is responsible for the biological fixation of atmospheric nitrogen into forms that can be used by plants and other organisms
137. co____r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
138. ref____te medicine *v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation
139. gl____rs move tardily *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
140. cattle ra____ng *n.* the practice of raising livestock, typically cattle or sheep, on large areas of land, often referred to as ranches, for meat, wool, or other products
141. min____ze toxins in the soil *v.* to convert or incorporate minerals into something, such as water, soil, or organic matter; to transform organic materials into a mineral form, often through natural processes
142. fragrant ge____um *n.* a flowering plant of the genus Geranium, often cultivated for its attractive, brightly colored flowers and commonly used in gardens or as decorative houseplants

ANSWERS: 134. peacock, 135. collide, 136. nitrogenase, 137. confer, 138. refrigerate, 139. glacier, 140. ranching, 141. mineralize, 142. geranium

143. pathogenic mi____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
144. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
145. s__t beliefs *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
146. potted ge_____um *n.* a flowering plant of the genus Geranium, often cultivated for its attractive, brightly colored flowers and commonly used in gardens or as decorative houseplants
147. se_____er bacteria *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
148. casual ha____o *n.* a particular way of arranging or styling one's hair; a hairstyle
149. ex__e confidence *v.* to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way
150. a fossil se_____ll *n.* a type of shell that once housed a mollusk, typically found on beaches or in shallow water
151. sea sp____e *n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning

ANSWERS: 143. microbe, 144. nanoscale, 145. sect, 146. geranium, 147. seawater, 148. hairdo, 149. exude, 150. seashell, 151. sponge

152. th___t for authority *n.* a feeling of needing something to drink; a strong desire for something
153. as proud as a pe____k *n.* a large, colorful, and majestic bird of the pheasant family
154. pa___e strokes *n.* a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance
155. ne___n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
156. sp____e from receiving light *v.* to emit or reflect bright flashes of light, especially with animation and joy

ANSWERS: 152. thirst, 153. peacock, 154. paddle, 155. neuron, 156. sparkle

Session 3: Fill in the Blanks

1. I love collecting _____ on the beach and displaying them in a jar at home.
n. a type of shell that once housed a mollusk, typically found on beaches or in shallow water

2. The safari tour allowed tourists to observe various African _____ in their natural habitats.
n. a hooved mammal, characterized by having hooves as their primary means of support and movement, including animals such as horses, cows, deer, and giraffes

3. The government introduced regulations to ensure sustainable _____ practices.
n. the practice of raising livestock, typically cattle or sheep, on large areas of land, often referred to as ranches, for meat, wool, or other products

4. The company installed a _____ harvesting system to collect and reuse it for manufacturing.
n. water that falls from the clouds in the form of rain and is collected

5. The diamond _____ in the sunlight.
v. to emit or reflect bright flashes of light, especially with animation and joy

6. The interests of the two countries _____.
v. to hit something violently when moving

7. The supermarket had a large _____ section with all kinds of fresh produce.
n. the process of cooling or freezing something, especially food, to preserve it

ANSWERS: 1. seashells, 2. ungulates, 3. ranching, 4. rainwater, 5. sparkled, 6. collide, 7. refrigeration

8. Her beautiful voice _____ the thirst of an ever-growing audience.
v. to drink liquid so that you satisfy your thirst
9. The ____ section of the ship suffered significant damage after the collision with the reef.
adj. (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
10. They _____ the fragile vase in bubble wrap to protect it during shipping.
v. to enclose or cover something in a protective or decorative layer
11. The _____ of stress over time can lead to health problems.
n. the accumulation or increase of something over time
12. As the sugar water cools, it will slowly _____ into rock candy.
v. to form crystals from a liquid or solution; to become clear or definite in form or structure; to solidify
13. The _____ of the ice age have shaped Fjord.
n. a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
14. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
15. She was tired of the _____ adherence to outdated traditions in her workplace.
adj. overly submissive or obedient, often to an excessive or servile degree; lacking independence or originality; unquestioningly following or imitating something or someone

ANSWERS: 8. quenched, 9. aft, 10. encased, 11. buildup, 12. crystallize, 13. glaciers, 14. neuron, 15. slavish

16. The hairstylist created a stunning _____ for the bride on her wedding day.
n. a particular way of arranging or styling one's hair; a hairstyle
17. 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
18. The _____ rental shop provided us with a map of the nearby snorkel sites.
n. a tube-like device used for breathing underwater, with one end in the mouth and the other above the surface of the water
19. During their camping trip, the kids were excited to go _____ hunting in the woods.
n. a small or unimportant creature or animal, often used in a familiar or affectionate way
20. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
21. When heated, _____ molecules absorb water and become thick and gooey, making it a useful thickening agent in cooking.
n. a complex carbohydrate found in many plants, including rice, wheat, and potatoes that is an important foodstuff for humans and animals
22. The jacket is _____ so that you can wear it with the fur lining on the outside or the inside.
adj. capable of being turned or done in the opposite direction or way; capable of being reversed or undone

ANSWERS: 16. hairdo, 17. seawater, 18. snorkel, 19. critter, 20. opportune, 21. starch, 22. reversible

23. The new soil treatment will help _____ the nutrients, making them more accessible to the plants.
- v.* to convert or incorporate minerals into something, such as water, soil, or organic matter; to transform organic materials into a mineral form, often through natural processes
24. The vibrant feathers of the _____ made it stand out in the garden.
- n.* a large, colorful, and majestic bird of the pheasant family
25. The serene pond was adorned with beautiful _____ flowers.
- n.* a type of aquatic plant with large, round, floating leaves and distinctive flowers, often associated with spiritual symbolism and cultural significance in Asia
26. 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
27. Environmentalists are concerned about the harm to the _____.
- n.* a type of land that is always wet and has soft soil; swamp or bog
28. The pottery was fired in the _____ for several hours to harden it.
- n.* an oven or furnace used for baking, drying, or firing clay, pottery, bricks, or other materials; typically made of brick or refractory material and heated with wood, coal, or gas
29. The old books in the library were so _____ that they crumbled upon touch.
- adj.* easily broken, cracked, or shattered when subjected to pressure or stress; lacking flexibility or resilience; fragile
30. We need to _____ the leftovers to keep them from spoiling.
- v.* to cool or preserve food or other items by using a refrigerator or other cold storage device; to keep something at a low temperature to prevent spoilage or degradation

ANSWERS: 23. mineralize, 24. peacock, 25. lotus, 26. mussels, 27. marsh, 28. kiln, 29. brittle, 30. refrigerate

31. We _____ cows to gain milk and meat.
- v.* to take control of animals or plants to provide food, power, or company
32. The _____ infestation destroyed the crops, causing widespread famine.
- n.* a type of grasshopper that can travel in large swarms and cause extensive damage to crops; can also refer to various other insects such as cicadas or katydids
33. The tiny marine _____ has existed for more than 500 million years.
- n.* a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
34. The flowers _____ a sweet fragrance.
- v.* to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way
35. He reached into his pocket and pulled out a small silver _____ box.
- n.* finely ground tobacco that is inhaled through the nose as a form of tobacco use; a type of scented tobacco that is often used for aromatic purposes in candles or incense; (verb) to extinguish or put out
36. The new CEO's primary mission is to _____ the company on the verge of bankruptcy.
- v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
37. The sunset painted the sky in a _____ orange and purple glow.
- adj.* giving off or reflecting light; glowing; shining; translucent or clear in appearance
38. Some insects use _____ to avoid detection by predators.
- n.* the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh

ANSWERS: 31. domesticate, 32. locust, 33. sponge, 34. exude, 35. snuff, 36. regenerate, 37. lucent, 38. mimicry

39. Long-term exposure to _____ materials can result in serious health problems.

adj. capable of causing cancer or promoting tumor growth; cancer-causing

40. The farmer used a _____ to store feed for the animals.

n. a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others

41. _____ fossils can tell us a lot about the history and environment of the oceans.

n. a type of single-celled algae that is characterized by its ornate and intricate silica shells, which form a distinctive pattern or design when viewed under a microscope

42. 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

43. The equipment is frequently used to _____ and distribute drinking water.

v. to remove harmful substances from something and increase the concentration of it

44. _____ 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

45. My allergies flare up during _____ season, making it difficult to breathe.

n. a fine powder substance consisting of microscopic grains produced by plants that facilitate their reproductive process through the process of pollination

ANSWERS: 39. carcinogenic, 40. silo, 41. Diatom, 42. dissolved, 43. purify, 44. Microbes, 45. pollen

46. The vibrant red _____ added a pop of color to the garden.
- n.* a flowering plant of the genus *Geranium*, often cultivated for its attractive, brightly colored flowers and commonly used in gardens or as decorative houseplants
47. The battery's _____ needs to be replaced for it to function properly.
- n.* the positively charged electrode by which electrons enter an electrical device, such as a battery or an electrolytic cell; the electrode at which oxidation occurs
48. The movie depicts an old-fashioned _____ between the two main characters.
- n.* the period of time when two individuals go through the process of getting to know each other, often with the intent of forming a romantic or intimate relationship
49. The solar wind is composed almost entirely of electrons and _____.
- n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
50. He read books to quench his _____ for knowledge.
- n.* a feeling of needing something to drink; a strong desire for something
51. He is very popular at school because he can _____ all the teachers' accents.
- v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
52. The _____ blade needs to be changed before we can continue the project.
- n.* a tool with a fine-toothed blade used for cutting intricate curves and patterns in thin material such as wood or metal, typically with the blade being reciprocating; a type of puzzle that consists of irregularly shaped pieces that must be fitted together to form a complete picture

ANSWERS: 46. geraniums, 47. anode, 48. courtship, 49. protons, 50. thirst, 51. mimic, 52. jigsaw

53. The minority _____ believed in a set of unconventional religious practices.
- n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
54. The use of synthetic _____ in food production has become controversial due to health concerns.
- n.* a substance that gives color to a material, such as paint, ink, or biological tissue; often derived from natural sources or synthetically produced
55. He _____ himself to studying the history of ancient civilizations.
- v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
56. Scientists have studied the resilience of the _____ also known as a water bear.
- n.* a microscopic, water-dwelling animal that is known for its resilience and ability to survive extreme conditions
57. At this _____ in the project, we must reassess our plans and make some changes.
- n.* a critical point or moment in time, often indicating a key decision or turning point; a place or point of connection, such as a joint or seam
58. The quiet and peaceful environment was _____ to concentration and productivity.
- adj.* tending to make something likely or possible
59. It can be difficult to _____ work, family, and social life, but finding balance is important.
- v.* to manage or cope with several tasks, responsibilities, or situations simultaneously; to keep several things in the air at once, as in a juggling act

ANSWERS: 53. sect, 54. pigments, 55. devoted, 56. tardigrade, 57. juncture, 58. conducive, 59. juggle

60. The bridge is a _____ structure and was built to span the river.
adj. created or produced by humans; artificial
61. The value of the currency _____ against major international currencies.
v. to fall suddenly, often uncontrollably; to topple or turn over; to decline sharply and quickly in value, quality, or performance
62. The company _____ a tracking code in the product's packaging to monitor its shipment.
v. to fix or set firmly in a surrounding mass
63. The formation of clouds is facilitated by the process of _____ and condensation
n. the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
64. The _____ in this fertilizer enhances the absorption of nutrients by the plants.
n. a chemical compound or molecule that forms a bond or coordination with a metal ion or other species, often to stabilize or enhance its properties or to facilitate transportation within a biological system
65. A gentle _____ concealed his powerfulness.
n. the face or front of a building, especially a large one; superficial or false appearance intended to conceal something unpleasant
66. They intend to _____ the footsteps of successful software companies.
v. to imitate someone else's achievements to try to do something as well as somebody else

ANSWERS: 60. human-made, 61. tumbled, 62. embedded, 63. evaporation, 64. chelate, 65. facade, 66. emulate

67. The leaders of the two countries met to _____ on the issue.
- v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
68. The _____ enzyme requires a lot of energy to function properly.
- n.* an enzyme found in certain bacteria that is responsible for the biological fixation of atmospheric nitrogen into forms that can be used by plants and other organisms
69. The explosive chemical reaction does not occur in all sodium _____.
- n.* a carbonic acid salt or ester that contains the anion CO₃
70. The compound contains a high _____ concentration, making it ideal for industrial applications.
- n.* a mineral compound containing silicon, oxygen, and one or more metal elements, commonly found in rocks and minerals; a type of chemical compound that forms the basis of many minerals
71. Mold exposure can release dangerous _____ into the air.
- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
72. The intricate _____ on the wooden box was the work of a master craftsman.
- n.* the act or process of cutting or shaping a hard material, such as wood or stone, into a specific form or design
73. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
- adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

ANSWERS: 67. confer, 68. nitrogenase, 69. carbonate, 70. silicate, 71. toxins, 72. carving, 73. nanoscale

74. The _____ boarders glided across the crystal-clear waters of the cove.
n. a flat, usually wooden implement with a handle used for stirring, mixing, or beating a liquid or substance
75. In ancient civilizations, the scarab _____ was worshiped as a sacred creature.
n. an insect having a hard shell-like back covering its wings
76. The _____ side of the fish was beautifully colored.
adj. relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
77. Corn is a common _____ for ethanol production.
n. the raw material or substances that are used to make a product, particularly in industrial or manufacturing processes
78. The company's plastic products are easily _____ thanks to a unique manufacturing process.
v. to decay naturally by microorganisms, such as bacteria and fungi

ANSWERS: 74. paddle, 75. beetle, 76. ventral, 77. feedstock, 78. biodegraded