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## Vocabulary Builder Reference from...

*Karen Lloyd: The mysterious microbes living deep inside the earth -- and how they could help humanity | TED Talk*

[https://www.ted.com/talks/karen\\_lloyd\\_the\\_mysterious\\_microbes\\_living\\_deep\\_inside\\_the\\_earth\\_and\\_how\\_they\\_could\\_help\\_humanity](https://www.ted.com/talks/karen_lloyd_the_mysterious_microbes_living_deep_inside_the_earth_and_how_they_could_help_humanity)

### All Words

#### IMPORTANT

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## Session 1: Word List

### solid

*adj.* hard or firm; characterized by good substantial quality

*synonym* : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

### dirt

*n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock

*synonym* : filth, grime, muck

(1) **dirt** road, (2) **dirt** track

The garden was filled with **dirt** and needed to be tilled before planting.

### 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.

### crisscross

*v.* to move or make lines that intersect or cross each other in a pattern resembling a series of X's

(1) **crisscross** over the edges of the walls, (2) **crisscross** my heart

The roads **crisscrossed** through the countryside, creating a beautiful scenic drive.

## fracture

*n.* the breaking or cracking of a rigid material or object such as bone

*synonym*: break, crack, rupture

(1) **fracture** test, (2) risk of bone **fractures**

X-ray inspection revealed many **fractures**.

## astronomical

*adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

*synonym*: huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

## quantity

*n.* the amount or number of something; magnitude

*synonym*: abundance, portion, amount

(1) half **quantity**, (2) residual **quantity**

In southward, the average annual water **quantity** increases.

## 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.

## crust

*n.* a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture

*synonym*: layer, coating, shell

(1) **crust** formation, (2) the earth's **crust**

The bread's **crust** was golden brown and crispy.

## gutsy

*adj.* displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges

*synonym* : courageous, brave, daring

(1) **gutsy** move, (2) **gutsy** performance

It was **gutsy** to quit her job and start her own business.

## gut

*n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant

*synonym* : belly, abdomen, courage

(1) the blind **gut**, (2) **gut** feelings

He told me a **gut-wrenching** truth about my parent's death.

## microbiome

*n.* the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body

*synonym* : flora

(1) skin **microbiome**, (2) have a diverse **microbiome**

The gut **microbiome** is a major producer of serotonin, which is necessary for human mental stability.

## 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.

## weigh

*v.* to have a particular weight; to carefully evaluate things before making a conclusion

*synonym* : consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo

The baby **weighs** 1 pound 3 oz.

## biome

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

*synonym* : ecosystem, habitat, biota

(1) **biome** conservation, (2) marine **biome**

The rainforest is one of the most diverse **biomes** on the planet.

## belly

*n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft

*synonym* : stomach, abdomen, gut

(1) the **belly** of the ship, (2) with an empty **belly**

She had a tattoo just above her **belly** button.

## pale

*adj.* having skin that is very light colored; lacking in vitality or interest or effectiveness

*synonym* : sallow, faint, ashen

(1) a **pale** complexion, (2) **pale** pink

She turned **pale** when she heard the news.

## comparison

*n.* the consideration or examination of the similarities between two or more people or things

*synonym* : equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

## soil

*n.* the top layer of Earth in which plants grow

*synonym* : earth, ground, mud

(1) **soils** retentive of moisture, (2) parched **soil**

**Soil** moisture is another significant component controlling soil respiration.

## collective

*adj.* done or shared by every member of a group of people

*synonym* : composite, concerted, cumulative

(1) right to **collective** bargaining, (2) **collective** ownership  
Product development is a **collective** effort.

## sew

*v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle

*synonym* : stitch, darn, tailor

(1) **sew** with thread, (2) **sew** a button

My mother taught me how to **sew**.

## possibility

*n.* a chance that something may happen or be true

*synonym* : chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

## limitless

*adj.* without end, limit, or boundary; infinite

*synonym* : boundless, infinite, unrestricted

(1) for a **limitless** time, (2) **limitless** potential

The possibilities for scientific discovery are **limitless**.

## dot

*n.* a very small circular mark, especially one that is printed

*synonym* : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

## subsurface

*adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface

*synonym* : beneath the surface, underground, subterranean

(1) **subsurface** mining, (2) **subsurface** oil reserves

The **subsurface** layers of the ocean are still largely unexplored.

## modern

*adj.* of or belonging to the present time or recent times

*synonym*: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

## microbiology

*n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment

(1) a specialist in **microbiology**, (2) **microbiology** laboratory

The field of **microbiology** includes the study of bacteria, fungi, viruses, and other microorganisms.

## impressive

*adj.* arousing admiration due to size, quality, or skill

*synonym*: impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

## coverage

*n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

*synonym*: reportage, scope, range

(1) full- **coverage** insurance, (2) contractual **coverage**

The scandal received widespread media **coverage**.

## alien

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

*synonym*: foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

**Alien** species have drastically altered the ecosystem in this area.

## spaceship

*n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space

*synonym*: starship, rocket, spacecraft

(1) a **spaceship** to survey the moon, (2) alien **spaceship**  
They launched a crewless **spaceship** into space.

## reconstruct

*v.* to build or form something again that has been damaged or destroyed

*synonym*: rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text  
They've decided to **reconstruct** a ruined castle.

## globe

*n.* the earth or world, mainly used to emphasize its vastness

*synonym*: Earth, world, sphere

(1) terrestrial **globe**, (2) around the **globe**  
His final goal is to sail around the **globe**.

## dormant

*adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances

*synonym*: inactive, sleeping, quiescent

(1) **dormant** volcano, (2) **dormant** account  
The disease can remain **dormant** for years before it presents any symptoms.

## relative

*adj.* considered and evaluated through comparison with something else

*synonym*: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors  
Most countries prohibit sexual activity between certain close **relatives**.

## figus

*n.* a genus of flowering plants in the family Moraceae, commonly known as fig trees or figs, characterized by their large, lobed leaves and edible fruit

(1) **figus** seeds, (2) **figus** plant  
The **figus** tree in the park provides shade for picnickers on hot summer days.

## measles

*n.* a highly infectious viral disease that causes fever, red spots on the skin, and other flu-like symptoms, typically affects children

*synonym* : rash, red measles, rubella

(1) **measles** outbreak, (2) **measles** vaccine

The school sent a notice of a **measles** case in one of the classrooms.

## guinea

*n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

*synonym* : coin, money, currency

(1) **guinea** coins, (2) **guinea** pig

The cost of the antique vase is three **guineas**.

## divide

*v.* to separate or cause to separate into parts or groups

*synonym* : separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

## coli

*n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

(1) E. **coli** bacteria strain, (2) **coli** cells

The study of Escherichia **coli** has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.

## 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.

## division

*n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector



*synonym* : branch, separator, section

(1) cellular **division**, (2) **division** chief

Which **division** of the company do you work in?

## ancient

*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

*synonym* : archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

## crazy

*adj.* stupid or not sensible; very angry

*synonym* : insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

## wrap

*v.* to cover or enclose something entirely with paper, cloth, or other material

*synonym* : surround, cover, bandage

(1) **wrap** a fish in foil, (2) **wrap** up a meeting

**Wrap** the bandage tightly around the injured arm.

## analogy

*n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept

*synonym* : metaphor, comparison, parallel

(1) draw **analogy**, (2) historical **analogy**

Some kinds of machine learning models show an **analogy** to how people learn.

## weird

*adj.* extraordinary, unexpected, or difficult to explain

*synonym* : bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

## complicated

*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

*synonym*: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

## cycle

*n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

*synonym*: revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

## span

*n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers

*synonym*: interval, period, length

(1) the **span** of a bird's wings, (2) the average life **span**

He slightly modified the **span** of training because it was just before a match.

## lifeless

*adj.* without life; dead

*synonym*: inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was not getting enough water.

## stick

*v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

*synonym*: pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

## ridiculous

*adj.* very silly or unreasonable and deserving to be laughed at

*synonym* : absurd, fatuous, foolish

(1) a **ridiculous** amount of money, (2) a **ridiculous** suggestion

Everyone regarded the theory he advocated as **ridiculous** but was later proven correct.

## react

*v.* to take action in response to something

*synonym* : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

## oblivious

*adj.* not aware of something, especially what is happening around you; forgetful

*synonym* : forgetful, clueless, unaware

(1) **oblivious** of his promise, (2) **oblivious** to our response

She was so engrossed in her work that she was **oblivious** to her surroundings.

## mundane

*adj.* very ordinary and therefore lacking interest or excitement

*synonym* : ordinary, everyday, prosaic

(1) **mundane** affairs, (2) **mundane** objects

After returning from the war, he had a pretty **mundane** life.

## seal

*v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

*synonym* : enclose, shut, close

(1) **seal** a hole, (2) a fur **seal**

He **sealed** the letter with hot wax.

## tube

*n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

*synonym* : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

## **nutrient**

*n.* any substance that is essential for the maintenance and growth of living things

*synonym*: food, vitamin

(1) **nutrient** medicine, (2) a **nutrient** for hair

They used fast-acting **nutrients** on the flowers in the flower beds.

## **starve**

*v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

*synonym*: famish, hunger

(1) **starve** for a victory, (2) **starve** to death

If you don't eat soon, you're going to **starve**.

## **survive**

*v.* to live or exist despite a dangerous event or period

*synonym*: endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash

These birds can only **survive** in temperate climates.

## **compete**

*v.* to strive to achieve more success than someone or something

*synonym*: contend, contest, vie

(1) **compete** against a friend, (2) **compete** fiercely

You must **compete** with others to obtain this position.

## **starvation**

*n.* a severe lack of food that leads to malnutrition and, ultimately, death

*synonym*: hunger, malnutrition, emaciation

(1) die of **starvation**, (2) **starvation** wages

The drought led to widespread **starvation** in the region.

## **grizzled**

*adj.* having gray or partly gray hair; having a worn or weathered appearance; marked by experience or endurance

*synonym* : gray-haired, hoary

(1) **grizzled** beard, (2) **grizzled** appearance

The **grizzled** veteran shared his war stories and experiences with the young soldiers.

## squeak

*v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice

*synonym* : squeal, whine, creak

(1) **squeak** out a few words, (2) mice **squeak**

The door **squeaked** when I opened it.

## upstart

*n.* a person who has recently risen to a position of power, especially one who behaves arrogantly; an ambitious or presumptuous newcomer

*synonym* : parvenu, newbie, newcomer

(1) **upstart** company, (2) ambitious **upstart**

The **upstart** politician made a splash in the election, challenging the established incumbents.

## evolutionary

*adj.* relating to or denoting how living things develop or change from earlier forms

*synonym* : developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

**Evolutionary** algorithms can find ways to optimize that humans do not anticipate.

## payoff

*n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk

*synonym* : reward, compensation, return

(1) financial **payoff**, (2) emotional **payoff**

The **payoff** for all my hard work was finally getting a promotion.

## extraordinary

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

*synonym* : exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

## **equate**

*v.* to consider or describe one thing as similar, equal, or analogous

*synonym* : associate, liken, relate

(1) **equate** mistakes with failure, (2) **equate** to legal responsibility

It isn't very reasonable to **equate** money with happiness.

## **unimportant**

*adj.* not important

*synonym* : inconsiderable, inconsequential, insignificant

(1) **unimportant** information, (2) **unimportant** event

He regretted having undertaken the **unimportant** job without thinking about the consequences.

## **sight**

*n.* the ability to see; anything that is seen

*synonym* : vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**

Many famous **sights** are within walking distance.

## **trickle**

*v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

*synonym* : dribble, flow, seep

(1) **trickle** down my cheek, (2) **trickle** from his eyes

Water was beginning to **trickle** into the basement after the heavy rain.

## **leftover**

*adj.* not consumed or used at the end of something

*synonym* : extra, residual, unused

(1) **leftover** from a party, (2) **leftover** goods

The chef will make soup with the **leftover** ham bone.

## **picnic**

*n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or

other outdoor settings

*synonym* : outing, barbecue, walkover

(1) **picnic** basket, (2) **picnic** table

The family enjoyed a lovely **picnic** in the park on a sunny day.

## shocking

*adj.* extremely or surprisingly bad, or causing a strong emotional response such as surprise or disgust

*synonym* : startling, surprising, astounding

(1) **shocking** response, (2) **shocking** revelation

The news of the accident was **shocking** and left many in shock.

## abundant

*adj.* present in great quantity

*synonym* : ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water

The country has **abundant** oil and natural gas resources.

## nitrogen

*n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

**Nitrogen** gas is used to inflate car tires because it does not react with rubber.

## phosphorus

*n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element

*synonym* : P, phosphoric, phosphorous

(1) **phosphorus** element, (2) yellow **phosphorus**

**Phosphorus** compounds are commonly used to manufacture fertilizers to promote plant growth.

## ahold

*adv.* to take hold of something, to grasp firmly

*synonym* : totally, completely, firmly

(1) grab **ahold** of the rope, (2) take **ahold** of the situation  
I was able to get **ahold** of the concert tickets before they sold out.

## 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.

## knit

*v.* to make a garment or fabric by interlocking loops of yarn with needles or a machine  
*synonym*: weave, crochet, knot

(1) **knit** my eyebrows, (2) **knit** a pair of socks  
The grandmother **knit** a warm sweater for her grandchild.

## 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**.

## molecule

*n.* a group of two or more atoms held together by attractive forces known as chemical bonds  
*synonym*: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior  
The shape of the DNA **molecule** is a double helix.

## photon

*n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

*synonym*: particle, quantum, light

(1) **photon** emission, (2) **photon** energy



Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

## sunlight

*n.* the light emitted by the sun; the rays of the sun

*synonym*: daylight, rays, sunshine

(1) a glare of **sunlight**, (2) in direct **sunlight**

Radiation from **sunlight** has a different wavelength.

## ecosystem

*n.* all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

## chemolithoautotroph

*n.* a type of organism that obtains energy by oxidizing inorganic compounds such as ammonia or sulfur and using carbon dioxide as a carbon source, often found in extreme environments such as deep-sea hydrothermal vents

*synonym*: rock-eating bacteria, lithoautotrophic bacteria

(1) **chemolithoautotroph** bacteria,

(2) **chemolithoautotroph** metabolism

The deep-sea hydrothermal vents provide the perfect environment for **chemolithoautotrophs** to thrive.

## chemo

*n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells

*synonym*: chemotherapy, antineoplastic

(1) **chemo** patient, (2) **chemo-radiotherapy**

The side effects of **chemo**, such as nausea and hair loss, were a major concern for the patient.

## lithograph

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

*synonym*: print, etching, engraving

(1) **lithograph** print, (2) limited edition **lithograph**  
The art gallery showcased a collection of colorful **lithographic** prints by renowned artists.

## autotroph

*n.* a living thing capable of producing sustenance from essential chemical compounds such as carbon dioxide.  
(1) photosynthetic **autotroph**, (2) the cell of **autotroph**  
Plants are **autotrophs**, meaning they produce their nutrition.

## sulfur

*n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications  
(1) **sulfur** dioxide, (2) **sulfur** mine  
The **sulfur** emissions from the nearby factory caused the rotten egg smell.

## manganese

*n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys  
*synonym* : Mn  
(1) **manganese** nodules, (2) **manganese** steel  
**Manganese** dioxide is used as a catalyst in some chemical reactions.

## purity

*n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature  
*synonym* : sinlessness, innocence, cleanliness  
(1) the degree of **purity**, (2) high **purity**  
Higher **purity** requires additional equipment and energy.

## electron

*n.* a tiny particle with the negative electrical charge  
*synonym* : negatron  
(1) flow of **electrons**, (2) beam of **electrons**  
The outermost **electron** shell determines the chemical properties of an atom.

## straight

*adj.* extending or moving in one direction without bending or curving; having no deviations

*synonym* : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

## electrical

*adj.* relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

## cord

*n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

*synonym* : wire, cable, string

(1) spinal **cord**, (2) electrical **cord**

Your spinal **cord** is located deep within your body.

## 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.

## 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.

## 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.

## mineral

*n.* a solid inorganic substance occurring in nature having a definite chemical composition

(1) vitamin and **minerals**, (2) **mineral** rights

The robust economy of the country is based on its **mineral** resources.

## rust

*n.* a reddish-brown coating or corrosion layer that forms on iron or steel as a result of exposure to moisture and oxygen; the process of corrosion on metal caused by oxidation

*synonym*: corrosion, oxidation, decay

(1) **rust-proofing**, (2) **rusty** metal

The old car was covered in **rust** and needed extensive repair work.

## pyrite

*n.* a yellowish mineral consisting of iron disulfide, typically found in granular form and often known as "fool's gold" due to its resemblance to gold

*synonym*: fool's gold

(1) **pyrite-rich** sedimentary rock, (2) cubic **pyrite** crystals

The presence of **pyrite** in the soil can influence the soil's acidity levels.

## limestone

*n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite

*synonym*: calcareous rock, chalk

(1) sheer **limestone** cliffs, (2) **limestone** pavement

The Great Pyramid of Giza was built using blocks of **limestone**.

## biology

*n.* the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**  
In junior high school, we had to dissect a frog in **biology** class.

## geology

*n.* a science that deals with the history of the earth as recorded in rocks

*synonym*: earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

## blur

*n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

*synonym*: smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

## volcano

*n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

*synonym*: mount, peak, crater

(1) **volcano** alert level, (2) active **volcano**

The island was formed by a **volcano** millions of years ago.

## crater

*n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

*synonym*: cavity, hole, pit

(1) **crater** lake, (2) lunar **crater**

An enormous **crater** marks the area where the vast volcanic explosion occurred.

## oceanic

*adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface

*synonym* : marine, pelagic, sea

(1) **oceanic** climate, (2) **oceanic** exploration

The **oceanic** waves crashed against the shore, creating a mesmerizing sight.

## **tectonic**

*adj.* relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it

*synonym* : seismic, geologic, geological

(1) **tectonic** valleys, (2) a **tectonic** earthquake

The **tectonic** plates shifted, causing an earthquake.

## **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.

## **subduct**

*v.* to push or force something, such as a tectonic plate, beneath another plate or into the mantle, creating a subduction zone

*synonym* : sink, descend

(1) **subducts** under the continental crust, (2) **subduct** oceanic lithosphere

The Pacific Plate is known to **subduct** beneath the North American Plate along the west coast of North America.

## **squeeze**

*v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

*synonym* : compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession

She **squeezed** the toothpaste tube from the middle to get the last bit out.

## zone

*n.* a specific area, region, or section that is marked off or defined in some way

*synonym*: area, region, territory

(1) time **zone**, (2) **zone** defense

He was reluctant to leave his comfort **zone** and try something new.

## exchange

*v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

*synonym*: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

## invite

*v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

*synonym*: ask, request, summon

(1) **invite** guests, (2) **invite** criticism

We want to **invite** you to our annual charity event.

## colleague

*n.* one of a group of a coworker, especially in a profession or a business

*synonym*: coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

## specific

*adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

*synonym*: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

## bury

v. to place a dead body in the ground, grave, or tomb  
*synonym* : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

## distribute

v. to give something to a large number of individuals, or to spread or furnish something

*synonym* : broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

## battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

*synonym* : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

## acid

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

*synonym* : sour

(1) an **acid** reaction, (2) good source of essential amino **acids**

During pregnancy, the stomach generates less **acid** than usual.

## 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.

## erupt

v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

*synonym* : eject, emit, burst



(1) **erupt** in anger, (2) **erupt** into tears

Battles between whites and blacks **erupted** immediately.

## strategy

*n.* a detailed plan of action designed to achieve a long-term or overall goal.

*synonym* : approach, procedure, scenario

(1) military **strategy**, (2) develop a **strategy**

Our plan includes a comprehensive marketing **strategy**.

## overly

*adv.* to a greater degree than is appropriate or desirable

*synonym* : excessively, too much

(1) **overly** excessive, (2) **overly** unnecessary

The movie was **overly** dramatic, with exaggerated emotions and cliched plot twists.

## dramatic

*adj.* very sudden, very excellent, or full of action and excitement

*synonym* : striking, theatrical, breathtaking

(1) make **dramatic** changes, (2) a **dramatic** rescue at sea

The statement had a **dramatic** impact on house prices.

## freak

*n.* an abnormality that is not typical or expected

*synonym* : anomaly, deviation, oddity

(1) a rock **freak**, (2) **freak** weather

The **freak** accident caused the car to flip over and land on its roof.

## terrifying

*adj.* very frightening or intimidating

*synonym* : frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events

Large earthquakes often generate **terrifying** tsunamis.

## eruption

*n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

*synonym* : explosion, outburst, burst

(1) **eruption** alert level, (2) emotional **eruption**

The volcanic **eruption** caused widespread destruction and left the area covered in ash.

## obliterate

v. to wipe out, destroy, or conceal all signs of something utterly; to remove completely from recognition or memory

*synonym*: destroy, eliminate, erase

(1) **obliterate** all traces, (2) **obliterate** data

The accident at that nuclear power plant **obliterated** the local ecosystem.

## vapor

n. a mass of tiny liquid drops in the air

*synonym*: condensation, dew, fog

(1) alcohol **vapor**, (2) water **vapor** in the atmosphere

Clouds form when water **vapor** rises to the upper atmosphere.

## 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.

## 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.

## illustrate

v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation

*synonym*: demonstrate, explain, exemplify

(1) **illustrate** a key point, (2) **illustrate** a story

The company's financial records **illustrate** how successful it has been.

## addition

*n.* the act or process of adding something to something else; the process of adding numbers

*synonym*: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

## cozy

*adj.* comfortable and warm; giving a feeling of comfort, warmth, and relaxation

*synonym*: comfortable, warm, snug

(1) have **cozy** relations, (2) **cozy** sound of rain

The fireplace made the room feel **cozy** and inviting.

## bubble

*n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

*synonym*: blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**

Many people worry that the current real estate market is a **bubble** that could burst soon.

## hypothesis

*n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

*synonym*: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

## underground

*adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

*synonym*: subterranean, subsurface, confidential

(1) water flowing **underground**, (2) **underground** activist

Having **underground** parking has been very beneficial

throughout the winter.

## filter

*n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

*synonym* : strainer

(1) gas **filter**, (2) clogged **filter**

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

## awful

*adj.* causing fear, dread, or terror; very bad or unpleasant

*synonym* : terrible, appalling, horrible

(1) an **awful** error, (2) do **awful** damage

I regretted making an **awful** mistake in my final exam.

## 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.

## discovery

*n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

*synonym* : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

## hunch

*v.* to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof

*synonym* : crouch, guess, speculate

(1) **hunch** against the rain, (2) **hunch** up the shoulders

I **hunch** over my computer all day, and my back aches after a while.

## messy

*adj.* disorganized and untidy

*synonym* : cluttered, disorganized, untidy

(1) **messy** data, (2) **messy** handling

His **messy** bedroom is always a source of frustration for his mother.

## troubleshoot

*v.* to identify and solve problems or difficulties, particularly in mechanical or technical systems or situations

*synonym* : diagnose, fix, repair

(1) **troubleshoot** network issues, (2) **troubleshoot** software problems

I need to **troubleshoot** why my computer keeps freezing.

## 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.

## confuse

*v.* to mistake one thing for another; to make somebody hard to understand

*synonym* : confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

## release

*v.* to set free or allow to escape from confinement

*synonym* : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

## 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**.

## sloth

*n.* laziness or lack of energy or motivation to do something; a slow-moving, arboreal mammal found in Central and South America

*synonym*: laziness, indolence, idleness

(1) lazy **sloth**, (2) overcome **sloth**

The **sloth's** slow movements are a product of their physiology.

## toucan

*n.* a tropical bird characterized by a large, colorful beak that is native to Central and South America, also known for its brightly colored feathers and distinctive calls

(1) **toucan** habitat, (2) tropical **toucan**

The colorful **toucan** bird is native to Central and South America.

## convert

*v.* to have a talk with someone; (adjective) reversed in order, relation, or action

*synonym*: alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

## carbonate

*n.* a carbonic acid salt or ester that contains the anion CO<sub>3</sub>

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

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

## humming

*adj.* producing a continuous, low, vibrating sound like that of the bee

*synonym*: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

## engineer

*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software  
*synonym*: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

## entrepreneur

*n.* an individual who creates or invests in one or more businesses, especially when this involves taking financial risks

*synonym*: founder, executive

(1) a successful **entrepreneur**, (2) billionaire **entrepreneur**

**Entrepreneurs** willingly accept business risks to achieve success.

## breakthrough

*n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

*synonym*: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in AI.

## 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.

## implication

*n.* something that is inferred or indirectly stated; the act or fact of being involved in something

*synonym*: suggestion, association, conclusion

(1) the **implication** in a crime, (2) the **implication** of a word

His poem has a very significant **implication**.

## mitigate

*v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something

*synonym*: alleviate, relieve, reduce

(1) **mitigate** risk, (2) **mitigate** a natural disaster

Efforts to **mitigate** the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

## 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.

## evolve

*v.* to develop gradually, or to cause the development of something or someone gradually

*synonym*: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

## 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.

## medical

*adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

*synonym*: health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.



## predict

*v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

*synonym*: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

## earthquake

*n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

*synonym*: seismic activity, tremor, temblor

(1) an **earthquake** zone, (2) an **earthquake-proof**

The violent **earthquake** caused widespread damage and injuries throughout the region.

## origin

*n.* the first existence or beginning of something

*synonym*: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

## fortunate

*adj.* having good luck or lucky

*synonym*: fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person

He was pretty **fortunate** to pass the exam.

## amazing

*adj.* extremely surprising, especially in a way that you like or admire

*synonym*: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

## crack

*v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

*synonym*: snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

## mystery

*n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

*synonym*: enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

## irrelevant

*adj.* not connected with or related to something and therefore not important

*synonym*: unrelated, immaterial, extrinsic

(1) an **irrelevant** thought, (2) do something **irrelevant**

They removed **irrelevant** content from the slides.

## Session 2: Spelling

1. gu\_\_y move *adj.* displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges
2. good source of essential amino a\_\_ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
3. up\_\_\_\_t company *n.* a person who has recently risen to a position of power, especially one who behaves arrogantly; an ambitious or presumptuous newcomer
4. 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
5. lit\_\_\_\_ph print *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design
6. me\_\_y handling *adj.* disorganized and untidy
7. a p\_\_e complexion *adj.* having skin that is very light colored; lacking in vitality or interest or effectiveness
8. spinal c\_\_d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

ANSWERS: 1. gutsy, 2. acid, 3. upstart, 4. snorkel, 5. lithograph, 6. messy, 7. pale, 8. cord

9. an ear\_\_\_\_\_ke-proof *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface
10. grab ah\_\_d of the rope *adv.* to take hold of something, to grasp firmly
11. st\_\_\_e for a victory *v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance
12. alien sp\_\_\_\_\_ip *n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space
13. sub\_\_\_\_\_ce oil reserves *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
14. w\_\_p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
15. a dry ba\_\_\_\_\_y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
16. around the gl\_\_e *n.* the earth or world, mainly used to emphasize its vastness
17. combined ox\_\_e *n.* a chemical compound that contains at least one oxygen atom and one other element
18. und\_\_\_\_\_th the surface of the water *adv.* under or below something else

ANSWERS: 9. earthquake, 10. ahold, 11. starve, 12. spaceship, 13. subsurface, 14. wrap, 15. battery, 16. globe, 17. oxide, 18. underneath

19. ni\_\_\_\_en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
20. active vo\_\_\_\_o *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
21. pathogenic mi\_\_\_\_e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
22. py\_\_\_\_e-rich sedimentary rock *n.* a yellowish mineral consisting of iron disulfide, typically found in granular form and often known as "fool's gold" due to its resemblance to gold
23. ov\_\_\_\_y excessive *adv.* to a greater degree than is appropriate or desirable
24. co\_\_\_\_e the listener *v.* to mistake one thing for another; to make somebody hard to understand
25. vitamin and mi\_\_\_\_ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
26. sq\_\_\_\_k out a few words *v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice
27. gas fi\_\_\_\_r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

ANSWERS: 19. nitrogen, 20. volcano, 21. microbe, 22. pyrite, 23. overly, 24. confuse, 25. mineral, 26. squeak, 27. filter

28. an imp\_\_\_\_\_ve array of facts      *adj.* arousing admiration due to size, quality, or skill
29. pr\_\_\_\_\_t when she will arrive      *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
30. co\_\_\_\_\_t fat into energy      *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
31. dis\_\_\_\_\_te wealth evenly      *v.* to give something to a large number of individuals, or to spread or furnish something
32. su\_\_\_\_\_ts under the continental crust      *v.* to push or force something, such as a tectonic plate, beneath another plate or into the mantle, creating a subduction zone
33. flow of el\_\_\_\_\_ons      *n.* a tiny particle with the negative electrical charge
34. te\_\_\_\_\_ic valleys      *adj.* relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it
35. time z\_\_e      *n.* a specific area, region, or section that is marked off or defined in some way
36. become increasingly com\_\_\_\_\_ed      *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
37. mu\_\_\_\_\_e objects      *adj.* very ordinary and therefore lacking interest or excitement
38. er\_\_t in anger      *v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

ANSWERS: 28. impressive, 29. predict, 30. convert, 31. distribute, 32. subduct, 33. electron, 34. tectonic, 35. zone, 36. complicated, 37. mundane, 38. erupt

39. right to col\_\_\_\_\_ve bargaining *adj.* done or shared by every member of a group of people
40. st\_\_\_e to death *v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance
41. bureau of ge\_\_\_\_\_y *n.* a science that deals with the history of the earth as recorded in rocks
42. have a diverse mic\_\_\_\_\_me *n.* the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body
43. nu\_\_\_\_\_nt medicine *n.* any substance that is essential for the maintenance and growth of living things
44. pi\_\_\_c table *n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings
45. er\_\_t into tears *v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
46. di\_\_\_e the cake into two pieces *v.* to separate or cause to separate into parts or groups
47. 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

ANSWERS: 39. collective, 40. starve, 41. geology, 42. microbiome, 43. nutrient, 44. picnic, 45. erupt, 46. divide, 47. carbon

48. a bold hyp\_\_\_\_\_is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
49. mo\_\_\_\_\_r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
50. s\_\_\_\_ls retentive of moisture *n.* the top layer of Earth in which plants grow
51. mo\_\_\_\_\_r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
52. pr\_\_\_\_\_t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
53. 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
54. 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
55. z\_\_\_\_e defense *n.* a specific area, region, or section that is marked off or defined in some way
56. a sp\_\_\_\_\_ip to survey the moon *n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space

ANSWERS: 48. hypothesis, 49. monitor, 50. soil, 51. monitor, 52. predict, 53. process, 54. planet, 55. zone, 56. spaceship



57. st\_\_\_\_\_ht for two months  
*adj.* extending or moving in one direction without bending or curving; having no deviations
58. fo\_\_\_\_\_te situation  
*adj.* having good luck or lucky
59. w\_\_p up a meeting  
*v.* to cover or enclose something entirely with paper, cloth, or other material
60. die of sta\_\_\_\_\_on  
*n.* a severe lack of food that leads to malnutrition and, ultimately, death
61. a cold cl\_\_\_\_\_e  
*n.* the weather in a particular location averaged over some long period
62. ambitious up\_\_\_\_\_t  
*n.* a person who has recently risen to a position of power, especially one who behaves arrogantly; an ambitious or presumptuous newcomer
63. silver ox\_\_e  
*n.* a chemical compound that contains at least one oxygen atom and one other element
64. bi\_\_e conservation  
*n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
65. r\_\_ty metal  
*n.* a reddish-brown coating or corrosion layer that forms on iron or steel as a result of exposure to moisture and oxygen; the process of corrosion on metal caused by oxidation
66. gr\_\_\_\_\_ed appearance  
*adj.* having gray or partly gray hair; having a worn or weathered appearance; marked by experience or endurance

ANSWERS: 57. straight, 58. fortunate, 59. wrap, 60. starvation, 61. climate, 62. upstart, 63. oxide, 64. biome, 65. rust, 66. grizzled

67. yellow pho\_\_\_\_\_us *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
68. fr\_\_\_\_\_re test *n.* the breaking or cracking of a rigid material or object such as bone
69. dull si\_\_t *n.* the ability to see; anything that is seen
70. photosynthetic au\_\_\_\_\_ph *n.* a living thing capable of producing sustenance from essential chemical compounds such as carbon dioxide.
71. the s\_\_n of a bird's wings *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
72. electrical c\_\_d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
73. hu\_\_h up the shoulders *v.* to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof
74. tr\_\_\_\_\_e from his eyes *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
75. ob\_\_\_\_\_us to our response *adj.* not aware of something, especially what is happening around you; forgetful

ANSWERS: 67. phosphorus, 68. fracture, 69. sight, 70. autotroph, 71. span, 72. cord, 73. hunch, 74. trickle, 75. oblivious

76. a rid\_\_\_\_\_us amount of money *adj.* very silly or unreasonable and deserving to be laughed at
77. bre\_\_\_\_\_ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
78. 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
79. uni\_\_\_\_\_nt event *adj.* not important
80. ast\_\_\_\_\_cal observation *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
81. historical an\_\_\_\_\_y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
82. cellular di\_\_\_\_\_on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
83. un\_\_\_\_\_o a decrease *v.* to go through something unpleasant or that involves a change
84. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
85. tro\_\_\_\_\_oot network issues *v.* to identify and solve problems or difficulties, particularly in mechanical or technical systems or situations
86. emotional pa\_\_\_\_f *n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk

ANSWERS: 76. ridiculous, 77. breakthrough, 78. instrument, 79. unimportant, 80. astronomical, 81. analogy, 82. division, 83. undergo, 84. biology, 85. troubleshoot, 86. payoff

87. a scientific di\_\_\_\_\_ry      *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
88. parched s\_\_l      *n.* the top layer of Earth in which plants grow
89. marine bi\_\_e      *n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
90. the state of being we\_\_d      *adj.* extraordinary, unexpected, or difficult to explain
91. st\_\_k a key in a lock      *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
92. a cr\_\_k in a board      *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
93. che\_\_\_\_\_oph bacteria      *n.* a type of organism that obtains energy by oxidizing inorganic compounds such as ammonia or sulfur and using carbon dioxide as a carbon source, often found in extreme environments such as deep-sea hydrothermal vents
94. ph\_\_\_n energy      *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

ANSWERS: 87. discovery, 88. soil, 89. biome, 90. weird, 91. stick, 92. crack, 93. chemolithoautotroph, 94. photon

95. ill\_\_\_\_\_te a key point  
*v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
96. an a\_\_d reaction  
*n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
97. hu\_\_\_\_\_g bird  
*adj.* producing a continuous, low, vibrating sound like that of the bee
98. g\_t feelings  
*n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
99. effects of cl\_\_\_\_\_e change  
*n.* the weather in a particular location averaged over some long period
100. col\_\_\_\_\_ve ownership  
*adj.* done or shared by every member of a group of people
101. k\_\_t a pair of socks  
*v.* to make a garment or fabric by interlocking loops of yarn with needles or a machine
102. the degree of pu\_\_\_y  
*n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
103. er\_\_\_\_\_on alert level  
*n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

ANSWERS: 95. illustrate, 96. acid, 97. humming, 98. gut, 99. climate, 100. collective, 101. knit, 102. purity, 103. eruption

104. a remote re\_\_\_\_ve *adj.* considered and evaluated through comparison with something else
105. a li\_\_\_\_ss corpse *adj.* without life; dead
106. sh\_\_\_\_ng response *adj.* extremely or surprisingly bad, or causing a strong emotional response such as surprise or disgust
107. uni\_\_\_\_nt information *adj.* not important
108. ter\_\_\_\_ng experience *adj.* very frightening or intimidating
109. le\_\_\_\_er goods *adj.* not consumed or used at the end of something
110. d\_\_t road *n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
111. c\_\_i cells *n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
112. a ch\_\_\_\_al compound *adj.* relating to or connected with chemistry;
113. co\_\_\_\_t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
114. unsolved my\_\_\_\_y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 104. relative, 105. lifeless, 106. shocking, 107. unimportant, 108. terrifying, 109. leftover, 110. dirt, 111. coli, 112. chemical, 113. convert, 114. mystery

115. ex\_\_\_\_ge a few friendly words      *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
116. mo\_\_\_\_n poetry      *adj.* of or belonging to the present time or recent times
117. a capillary t\_\_e      *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
118. gr\_\_\_\_ed beard      *adj.* having gray or partly gray hair; having a worn or weathered appearance; marked by experience or endurance
119. am\_\_\_\_g advances      *adj.* extremely surprising, especially in a way that you like or admire
120. ill\_\_\_\_te a story      *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
121. ter\_\_\_\_ng events      *adj.* very frightening or intimidating
122. pi\_\_\_\_c basket      *n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings
123. gu\_\_\_\_a coins      *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

ANSWERS: 115. exchange, 116. modern, 117. tube, 118. grizzled, 119. amazing, 120. illustrate, 121. terrifying, 122. picnic, 123. guinea

124. a te\_\_\_\_ic earthquake *adj.* relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it
125. b\_\_y in the earth *v.* to place a dead body in the ground, grave, or tomb
126. go to the workplace by cy\_\_e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
127. ease of com\_\_\_\_\_on *n.* the consideration or examination of the similarities between two or more people or things
128. pos\_\_\_\_\_ty for growth *n.* a chance that something may happen or be true
129. less fo\_\_\_\_\_te person *adj.* having good luck or lucky
130. or\_\_\_\_n of information *n.* the first existence or beginning of something
131. live an ab\_\_\_\_\_nt life *adj.* present in great quantity
132. ev\_\_\_e *v.* to develop gradually, or to cause the development of something or someone gradually
133. marine ec\_\_\_\_\_em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
134. in\_\_\_e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
135. professor of ch\_\_\_\_\_ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 124. tectonic, 125. bury, 126. cycle, 127. comparison, 128. possibility, 129. fortunate, 130. origin, 131. abundant, 132. evolve, 133. ecosystem, 134. invite, 135. chemistry



136. a glass t\_\_e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
137. economic bu\_\_\_e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
138. clogged fi\_\_\_r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
139. the blind g\_t *n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
140. polar con\_\_\_\_\_al air *adj.* of or relating to a continent (= one of the earth's large landmasses)
141. 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
142. the imp\_\_\_\_\_on in a crime *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
143. cr\_\_t formation *n.* a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture

ANSWERS: 136. tube, 137. bubble, 138. filter, 139. gut, 140. continental, 141. institute, 142. implication, 143. crust

144. lunar cr\_\_\_r *n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
145. su\_\_\_r dioxide *n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications
146. an\_\_\_\_e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
147. sq\_\_\_\_e a lemon *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
148. an ele\_\_\_\_\_al storm *adj.* relating to electricity
149. a specialist in mic\_\_\_\_\_ogy *n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
150. cri\_\_\_\_\_ss my heart *v.* to move or make lines that intersect or cross each other in a pattern resembling a series of X's
151. water flowing und\_\_\_\_\_nd *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

ANSWERS: 144. crater, 145. sulfur, 146. analyze, 147. squeeze, 148. electrical, 149. microbiology, 150. crisscross, 151. underground

152. the imp\_\_\_\_\_on of a word *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
153. the most am\_\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
154. mi\_\_\_\_\_es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
155. small mo\_\_\_\_\_les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
156. a successful ent\_\_\_\_\_eur *n.* an individual who creates or invests in one or more businesses, especially when this involves taking financial risks
157. risk of bone fr\_\_\_\_\_res *n.* the breaking or cracking of a rigid material or object such as bone
158. my\_\_\_\_\_y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
159. collaborate with co\_\_\_\_\_ues *n.* one of a group of a coworker, especially in a profession or a business
160. a we\_\_d dress *adj.* extraordinary, unexpected, or difficult to explain
161. obl\_\_\_\_\_te data *v.* to wipe out, destroy, or conceal all signs of something utterly; to remove completely from recognition or memory

ANSWERS: 152. implication, 153. amazing, 154. microbe, 155. molecule, 156. entrepreneur, 157. fracture, 158. mystery, 159. colleague, 160. weird, 161. obliterate

162. ext\_\_\_\_\_ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
163. al\_\_n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
164. ob\_\_\_\_\_us of his promise *adj.* not aware of something, especially what is happening around you; forgetful
165. ext\_\_\_\_\_ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
166. hu\_\_h against the rain *v.* to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof
167. tr\_\_\_\_\_e down my cheek *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
168. cr\_\_y about cars and racing *adj.* stupid or not sensible; very angry
169. r\_\_t-proofing *n.* a reddish-brown coating or corrosion layer that forms on iron or steel as a result of exposure to moisture and oxygen; the process of corrosion on metal caused by oxidation
170. test my hyp\_\_\_\_\_is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
171. a fur s\_\_l *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

ANSWERS: 162. extraordinary, 163. alien, 164. oblivious, 165. extraordinary, 166. hunch, 167. trickle, 168. crazy, 169. rust, 170. hypothesis, 171. seal

172. ecology and evo\_\_\_\_\_ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
173. the be\_\_y of the ship *n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft
174. re\_\_t at a high temperature *v.* to take action in response to something
175. rec\_\_\_\_\_ct the original text *v.* to build or form something again that has been damaged or destroyed
176. high pu\_\_\_y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
177. ch\_\_o-radiotherapy *n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells
178. sheer li\_\_\_\_\_ne cliffs *n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
179. eq\_\_\_e mistakes with failure *v.* to consider or describe one thing as similar, equal, or analogous
180. 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
181. a rock fr\_\_k *n.* an abnormality that is not typical or expected
182. mice sq\_\_\_k *v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice

ANSWERS: 172. evolutionary, 173. belly, 174. react, 175. reconstruct, 176. purity, 177. chemo, 178. limestone, 179. equate, 180. ph, 181. freak, 182. squeak

183. alcohol va\_\_r *n.* a mass of tiny liquid drops in the air
184. hu\_\_\_\_g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
185. a nu\_\_\_\_nt for hair *n.* any substance that is essential for the maintenance and growth of living things
186. a me\_\_\_\_l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
187. residual qu\_\_\_\_ty *n.* the amount or number of something; magnitude
188. the great di\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
189. half qu\_\_\_\_ty *n.* the amount or number of something; magnitude
190. 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
191. d\_t blot method *n.* a very small circular mark, especially one that is printed
192. sq\_\_\_\_e a confession *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
193. the ch\_\_\_\_ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 183. vapor, 184. humming, 185. nutrient, 186. medical, 187. quantity, 188. discovery, 189. quantity, 190. snorkel, 191. dot, 192. squeeze, 193. chemistry

194. connecting the d\_ots *n.* a very small circular mark, especially one that is printed
195. emotional er\_\_\_\_on *n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something
196. decision-making pr\_\_\_\_s *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
197. full-co\_\_\_\_ge insurance *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
198. water va\_\_r in the atmosphere *n.* a mass of tiny liquid drops in the air
199. fall li\_\_\_\_ss *adj.* without life; dead
200. to\_\_\_\_n habitat *n.* a tropical bird characterized by a large, colorful beak that is native to Central and South America, also known for its brightly colored feathers and distinctive calls
201. an irr\_\_\_\_nt thought *adj.* not connected with or related to something and therefore not important
202. bu\_\_\_\_e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 194. dot, 195. eruption, 196. process, 197. coverage, 198. vapor, 199. lifeless, 200. toucan, 201. irrelevant, 202. bubble

203. do\_\_\_\_\_t account *adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances
204. pre-Christian an\_\_\_\_\_t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
205. fi\_\_s plant *n.* a genus of flowering plants in the family Moraceae, commonly known as fig trees or figs, characterized by their large, lobed leaves and edible fruit
206. mic\_\_\_\_\_ogy laboratory *n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
207. former co\_\_\_\_\_ue *n.* one of a group of a coworker, especially in a profession or a business
208. ad\_\_\_\_\_on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
209. do\_\_\_\_\_t volcano *adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances
210. 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
211. tropical to\_\_\_\_n *n.* a tropical bird characterized by a large, colorful beak that is native to Central and South America, also known for its brightly colored feathers and distinctive calls

ANSWERS: 203. dormant, 204. ancient, 205. ficus, 206. microbiology, 207. colleague, 208. addition, 209. dormant, 210. carbon, 211. toucan



212. re\_\_\_\_ve factors *adj.* considered and evaluated through comparison with something else
213. gu\_\_y performance *adj.* displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges
214. contractual co\_\_\_\_ge *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
215. beam of el\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
216. s\_w with thread *v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle
217. temporary me\_\_\_\_l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
218. a civil en\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
219. resident al\_\_ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
220. ov\_\_\_\_y unnecessary *adv.* to a greater degree than is appropriate or desirable
221. a st\_\_\_\_ht line *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 212. relative, 213. gutsy, 214. coverage, 215. electron, 216. sew, 217. medical, 218. engineer, 219. alien, 220. overly, 221. straight

222. evolutionary bi\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things
223. li\_\_\_\_\_ne pavement      *n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite
224. 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
225. s\_\_l a hole      *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed
226. make dr\_\_\_\_\_ic changes      *adj.* very sudden, very excellent, or full of action and excitement
227. co\_\_\_\_\_e against a friend      *v.* to strive to achieve more success than someone or something
228. en\_\_\_\_\_er shortage      *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
229. an aw\_\_l error      *adj.* causing fear, dread, or terror; very bad or unpleasant
230. billionaire ent\_\_\_\_\_eur      *n.* an individual who creates or invests in one or more businesses, especially when this involves taking financial risks
231. in direct su\_\_\_\_\_ht      *n.* the light emitted by the sun; the rays of the sun
232. dis\_\_\_\_\_te video content      *v.* to give something to a large number of individuals, or to spread or furnish something

ANSWERS: 222. biology, 223. limestone, 224. oxygen, 225. seal, 226. dramatic, 227. compete, 228. engineer, 229. awful, 230. entrepreneur, 231. sunlight, 232. distribute

233. 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
234. degree in ele\_\_\_\_\_al engineering *adj.* relating to electricity
235. the cell of au\_\_\_\_\_ph *n.* a living thing capable of producing sustenance from essential chemical compounds such as carbon dioxide.
236. in\_\_\_e guests *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
237. mi\_\_\_\_\_l rights *n.* a solid inorganic substance occurring in nature having a definite chemical composition
238. cubic py\_\_\_e crystals *n.* a yellowish mineral consisting of iron disulfide, typically found in granular form and often known as "fool's gold" due to its resemblance to gold
239. un\_\_\_\_\_o surgery *v.* to go through something unpleasant or that involves a change
240. co\_\_\_\_\_e fiercely *v.* to strive to achieve more success than someone or something
241. a rid\_\_\_\_\_us suggestion *adj.* very silly or unreasonable and deserving to be laughed at
242. me\_\_y data *adj.* disorganized and untidy
243. pos\_\_\_\_\_ty of a major earthquake *n.* a chance that something may happen or be true

ANSWERS: 233. instrument, 234. electrical, 235. autotroph, 236. invite, 237. mineral, 238. pyrite, 239. undergo, 240. compete, 241. ridiculous, 242. messy, 243. possibility

244. con\_\_\_\_\_al divide *adj.* of or relating to a continent (= one of the earth's large landmasses)
245. su\_\_\_\_\_e a plane crash *v.* to live or exist despite a dangerous event or period
246. mu\_\_\_\_\_e affairs *adj.* very ordinary and therefore lacking interest or excitement
247. pho\_\_\_\_\_us element *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
248. cr\_\_\_\_r lake *n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
249. a glare of su\_\_\_\_\_ht *n.* the light emitted by the sun; the rays of the sun
250. develop a st\_\_\_\_\_gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
251. fi\_\_s seeds *n.* a genus of flowering plants in the family Moraceae, commonly known as fig trees or figs, characterized by their large, lobed leaves and edible fruit
252. re\_\_\_\_\_e a prisoner *v.* to set free or allow to escape from confinement
253. rec\_\_\_\_\_ct an image *v.* to build or form something again that has been damaged or destroyed
254. di\_\_\_\_e money equally *v.* to separate or cause to separate into parts or groups
255. overcome sl\_\_h *n.* laziness or lack of energy or motivation to do something; a slow-moving, arboreal mammal found in Central and South America

ANSWERS: 244. continental, 245. survive, 246. mundane, 247. phosphorus, 248. crater, 249. sunlight, 250. strategy, 251. ficus, 252. release, 253. reconstruct, 254. divide, 255. sloth

256. sh\_\_\_\_ng revelation *adj.* extremely or surprisingly bad, or causing a strong emotional response such as surprise or disgust
257. 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
258. fr\_\_k weather *n.* an abnormality that is not typical or expected
259. racial or\_\_\_\_n *n.* the first existence or beginning of something
260. have c\_\_y relations *adj.* comfortable and warm; giving a feeling of comfort, warmth, and relaxation
261. do aw\_\_l damage *adj.* causing fear, dread, or terror; very bad or unpleasant
262. b\_\_r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
263. we\_\_h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
264. the evo\_\_\_\_\_ary process *adj.* relating to or denoting how living things develop or change from earlier forms
265. bre\_\_\_\_\_ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
266. su\_\_\_\_t oceanic lithosphere *v.* to push or force something, such as a tectonic plate, beneath another plate or into the mantle, creating a subduction zone

ANSWERS: 256. shocking, 257. atmosphere, 258. freak, 259. origin, 260. cozy, 261. awful, 262. blur, 263. weigh, 264. evolutionary, 265. breakthrough, 266. subduct

267. sub\_\_\_\_\_ce mining *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
268. an unexpected si\_\_t *n.* the ability to see; anything that is seen
269. und\_\_\_\_\_th the laughter *adv.* under or below something else
270. re\_\_\_\_\_e CO2 into the air *v.* to set free or allow to escape from confinement
271. an\_\_\_\_\_e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
272. ex\_\_\_\_\_ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
273. the earth's cr\_\_t *n.* a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture
274. an\_\_\_\_\_t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
275. a com\_\_\_\_\_ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 267. subsurface, 268. sight, 269. underneath, 270. release, 271. analyze, 272. exchange, 273. crust, 274. ancient, 275. complicated

276. mi\_\_\_\_te risk *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
277. a cr\_\_y scheme *adj.* stupid or not sensible; very angry
278. re\_\_t against his way of thinking *v.* to take action in response to something
279. the average life s\_\_n *n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
280. do something irr\_\_\_\_nt *adj.* not connected with or related to something and therefore not important
281. financial pa\_\_\_\_f *n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk
282. so\_\_d ally *adj.* hard or firm; characterized by good substantial quality
283. su\_\_\_\_r mine *n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications
284. 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
285. cr\_\_k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

ANSWERS: 276. mitigate, 277. crazy, 278. react, 279. span, 280. irrelevant, 281. payoff, 282. solid, 283. sulfur, 284. institute, 285. crack

286. oc\_\_\_\_c climate *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
287. oc\_\_\_\_c exploration *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
288. change the ec\_\_\_\_\_em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
289. co\_\_\_\_e fantasy with reality *v.* to mistake one thing for another; to make somebody hard to understand
290. beginning of the ind\_\_\_\_\_al revolution *adj.* of or relating to or resulting from industry
291. vo\_\_\_\_o alert level *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
292. me\_\_\_\_s outbreak *n.* a highly infectious viral disease that causes fever, red spots on the skin, and other flu-like symptoms, typically affects children
293. with an empty be\_\_y *n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft
294. sodium ca\_\_\_\_\_te *n.* a carbonic acid salt or ester that contains the anion CO<sub>3</sub>

ANSWERS: 286. oceanic, 287. oceanic, 288. ecosystem, 289. confuse, 290. industrial, 291. volcano, 292. measles, 293. belly, 294. carbonate



295. lazy sl\_\_h *n.* laziness or lack of energy or motivation to do something; a slow-moving, arboreal mammal found in Central and South America
296. alkaline ca\_\_\_\_\_te *n.* a carbonic acid salt or ester that contains the anion CO<sub>3</sub>
297. a convivial atm\_\_\_\_\_re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
298. s\_w a button *v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle
299. und\_\_\_\_\_nd activist *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
300. toxic ch\_\_\_\_\_als *adj.* relating to or connected with chemistry;
301. so\_\_d employment measures *adj.* hard or firm; characterized by good substantial quality
302. motion b\_\_r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
303. pre-mo\_\_\_n agricultural society *adj.* of or belonging to the present time or recent times
304. take ah\_\_d of the situation *adv.* to take hold of something, to grasp firmly
305. che\_\_\_\_\_oph  
metabolism *n.* a type of organism that obtains energy by oxidizing inorganic compounds such as ammonia or sulfur and using carbon dioxide as a carbon source, often found in extreme environments such as deep-sea hydrothermal vents

ANSWERS: 295. sloth, 296. carbonate, 297. atmosphere, 298. sew, 299. underground, 300. chemical, 301. solid, 302. blur, 303. modern, 304. ahold, 305. chemolithoautotroph

306. ind\_\_\_\_\_al alcohol *adj.* of or relating to or resulting from industry
307. the cy\_\_e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
308. sta\_\_\_\_\_on wages *n.* a severe lack of food that leads to malnutrition and, ultimately, death
309. heavy ni\_\_\_\_\_en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
310. ch\_\_o patient *n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells
311. an ear\_\_\_\_\_ke zone *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface
312. com\_\_\_\_\_on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
313. le\_\_\_\_\_er from a party *adj.* not consumed or used at the end of something
314. ph\_\_\_n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
315. eq\_\_\_e to legal responsibility *v.* to consider or describe one thing as similar, equal, or analogous

ANSWERS: 306. industrial, 307. cycle, 308. starvation, 309. nitrogen, 310. chemo, 311. earthquake, 312. comparison, 313. leftover, 314. photon, 315. equate

316. di\_\_\_\_on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
317. d\_\_t track *n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
318. ba\_\_\_\_y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
319. imp\_\_\_\_\_ve performances *adj.* arousing admiration due to size, quality, or skill
320. me\_\_\_\_s vaccine *n.* a highly infectious viral disease that causes fever, red spots on the skin, and other flu-like symptoms, typically affects children
321. fire st\_\_k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
322. p\_\_e pink *adj.* having skin that is very light colored; lacking in vitality or interest or effectiveness
323. obl\_\_\_\_\_te all traces *v.* to wipe out, destroy, or conceal all signs of something utterly; to remove completely from recognition or memory
324. a dr\_\_\_\_ic rescue at sea *adj.* very sudden, very excellent, or full of action and excitement

ANSWERS: 316. division, 317. dirt, 318. battery, 319. impressive, 320. measles, 321. stick, 322. pale, 323. obliterate, 324. dramatic

325. li\_\_\_\_\_ss potential *adj.* without end, limit, or boundary; infinite
326. ma\_\_\_\_\_se steel *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
327. industry-sp\_\_\_\_\_ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
328. we\_\_h a cargo *v.* to have a particular weight; to carefully evaluate things before making a conclusion
329. 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
330. skin mic\_\_\_\_\_me *n.* the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body
331. ev\_\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
332. mi\_\_\_\_\_te a natural disaster *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
333. military st\_\_\_\_\_gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
334. 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

ANSWERS: 325. limitless, 326. manganese, 327. specific, 328. weigh, 329. oxygen, 330. microbiome, 331. evolve, 332. mitigate, 333. strategy, 334. planet

335. for a li\_\_\_\_\_ss time *adj.* without end, limit, or boundary; infinite
336. c\_\_y sound of rain *adj.* comfortable and warm; giving a feeling of comfort, warmth, and relaxation
337. su\_\_\_\_\_e a blizzard *v.* to live or exist despite a dangerous event or period
338. cri\_\_\_\_\_ss over the edges of the walls *v.* to move or make lines that intersect or cross each other in a pattern resembling a series of X's
339. sp\_\_\_\_\_ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
340. chemical ad\_\_\_\_\_on *n.* the act or process of adding something to something else; the process of adding numbers
341. an ab\_\_\_\_\_nt supply of water *adj.* present in great quantity
342. ast\_\_\_\_\_cal numbers *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
343. k\_\_t my eyebrows *v.* to make a garment or fabric by interlocking loops of yarn with needles or a machine
344. mo\_\_\_\_\_le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
345. 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

ANSWERS: 335. limitless, 336. cozy, 337. survive, 338. crisscross, 339. specific, 340. addition, 341. abundant, 342. astronomical, 343. knit, 344. molecule, 345. ph

346. local ge\_\_\_\_y *n.* a science that deals with the history of the earth as recorded in rocks
347. ma\_\_\_\_\_se nodules *n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys
348. E. c\_\_i bacteria strain *n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
349. b\_\_y emotion *v.* to place a dead body in the ground, grave, or tomb
350. tro\_\_\_\_\_oot software problems *v.* to identify and solve problems or difficulties, particularly in mechanical or technical systems or situations
351. draw an\_\_\_\_y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
352. gu\_\_\_a pig *n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic
353. terrestrial gl\_\_e *n.* the earth or world, mainly used to emphasize its vastness
354. limited edition lit\_\_\_\_ph *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

ANSWERS: 346. geology, 347. manganese, 348. coli, 349. bury, 350. troubleshoot, 351. analogy, 352. guinea, 353. globe, 354. lithograph

ANSWERS:

## Session 3: Fill in the Blanks

1. Radiation from \_\_\_\_\_ has a different wavelength.  
*n.* the light emitted by the sun; the rays of the sun
2. Higher \_\_\_\_\_ requires additional equipment and energy.  
*n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
3. In southward, the average annual water \_\_\_\_\_ increases.  
*n.* the amount or number of something; magnitude
4. \_\_\_\_\_ moisture is another significant component controlling soil respiration.  
*n.* the top layer of Earth in which plants grow
5. The news of the accident was \_\_\_\_\_ and left many in shock.  
*adj.* extremely or surprisingly bad, or causing a strong emotional response such as surprise or disgust
6. The Pacific Plate is known to \_\_\_\_\_ beneath the North American Plate along the west coast of North America.  
*v.* to push or force something, such as a tectonic plate, beneath another plate or into the mantle, creating a subduction zone
7. \_\_\_\_\_ and weather have an impact on every part of our lifestyles.  
*n.* the weather in a particular location averaged over some long period
8. The country has \_\_\_\_\_ oil and natural gas resources.  
*adj.* present in great quantity

ANSWERS: 1. sunlight, 2. purity, 3. quantity, 4. Soil, 5. shocking, 6. subduct, 7. Climate, 8. abundant



9. The engine did not start because the \_\_\_\_\_ was flat.

- n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

10. The roads \_\_\_\_\_ through the countryside, creating a beautiful scenic drive.

- v.* to move or make lines that intersect or cross each other in a pattern resembling a series of X's

11. The door \_\_\_\_\_ when I opened it.

- v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice

12. The \_\_\_\_\_ layers of the ocean are still largely unexplored.

- adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface

13. The family enjoyed a lovely \_\_\_\_\_ in the park on a sunny day.

- n.* an outdoor meal or social gathering where food is served and eaten in nature, typically in a park, forest, or other outdoor settings

14. It's notoriously challenging to \_\_\_\_\_ birth rates.

- v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

15. The \_\_\_\_\_ plates shifted, causing an earthquake.

- adj.* relating to the structure of the Earth's crust and the large-scale processes that occur as a result of movements within it

ANSWERS: 9. battery, 10. crisscrossed, 11. squeaked, 12. subsurface, 13. picnic, 14. predict, 15. tectonic

16. His \_\_\_\_\_ bedroom is always a source of frustration for his mother.

*adj.* disorganized and untidy

17. The \_\_\_\_\_ breakfast at the hotel was included with the room.

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

18. He was a visiting \_\_\_\_\_ professor at the University of Tokyo.

*n.* a science that deals with the history of the earth as recorded in rocks

19. I want to \_\_\_\_\_ my sadness into strength.

*v.* to have a talk with someone; (adjective) reversed in order, relation, or action

20. The fireplace made the room feel \_\_\_\_\_ and inviting.

*adj.* comfortable and warm; giving a feeling of comfort, warmth, and relaxation

21. Some kinds of machine learning models show an \_\_\_\_\_ to how people learn.

*n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept

22. He that would eat the kernel must \_\_\_\_\_ the nut.

*v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

23. The animal rights group worked to \_\_\_\_\_ the dolphins back into the wild.

*v.* to set free or allow to escape from confinement

24. I regretted making an \_\_\_\_\_ mistake in my final exam.

*adj.* causing fear, dread, or terror; very bad or unpleasant

ANSWERS: 16. messy, 17. continental, 18. geology, 19. convert, 20. cozy, 21. analogy, 22. crack, 23. release, 24. awful

25. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.  
*n.* a tiny particle with the negative electrical charge
26. Most countries prohibit sexual activity between certain close \_\_\_\_\_.  
*adj.* considered and evaluated through comparison with something else
27. The field of \_\_\_\_\_ includes the study of bacteria, fungi, viruses, and other microorganisms.  
*n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
28. He was reluctant to leave his comfort \_\_\_\_\_ and try something new.  
*n.* a specific area, region, or section that is marked off or defined in some way
29. The camera's focus was off, and the image was a \_\_\_\_\_ of colors and shapes.  
*n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
30. The grandmother \_\_\_\_\_ a warm sweater for her grandchild.  
*v.* to make a garment or fabric by interlocking loops of yarn with needles or a machine
31. I decided to seek counseling on the advice of my \_\_\_\_\_.  
*n.* one of a group of a coworker, especially in a profession or a business
32. The scandal received widespread media \_\_\_\_\_.  
*n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

ANSWERS: 25. electron, 26. relatives, 27. microbiology, 28. zone, 29. blur, 30. knit, 31. colleague, 32. coverage

33. The baby \_\_\_\_\_ 1 pound 3 oz.

- v.* to have a particular weight; to carefully evaluate things before making a conclusion

34. Everyone regarded the theory he advocated as \_\_\_\_\_ but was later proven correct.

- adj.* very silly or unreasonable and deserving to be laughed at

35. We want to \_\_\_\_\_ you to our annual charity event.

- v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

36. The chef will make soup with the \_\_\_\_\_ ham bone.

- adj.* not consumed or used at the end of something

37. The violent \_\_\_\_\_ caused widespread damage and injuries throughout the region.

- n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

38. There is plenty of space to \_\_\_\_\_ everyone.

- v.* to place a dead body in the ground, grave, or tomb

39. I \_\_\_\_\_ over my computer all day, and my back aches after a while.

- v.* to lean forward or arch one's back in a way that suggests a feeling of suspicion or uncertainty; to have a feeling or presentiment that something is true or likely to happen, without evidence or explicit proof

40. He narrated the \_\_\_\_\_ story of his adventure.

- adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 33. weighs, 34. ridiculous, 35. invite, 36. leftover, 37. earthquake, 38. bury, 39. hunch, 40. extraordinary

41. She was so engrossed in her work that she was \_\_\_\_\_ to her surroundings.  
*adj.* not aware of something, especially what is happening around you; forgetful
42. 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
43. \_\_\_\_\_ the bandage tightly around the injured arm.  
*v.* to cover or enclose something entirely with paper, cloth, or other material
44. Efforts to \_\_\_\_\_ the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.  
*v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
45. The train has to \_\_\_\_\_ rigorous safety checks.  
*v.* to go through something unpleasant or that involves a change
46. They've decided to \_\_\_\_\_ a ruined castle.  
*v.* to build or form something again that has been damaged or destroyed
47. The rainforest is one of the most diverse \_\_\_\_\_ on the planet.  
*n.* a major ecological community characterized by particular plant and animal species adapted to a specific climate and geographic region, such as desert, tundra, or rainforest
48. In \_\_\_\_\_ private corporations provide healthcare services.  
*n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 41. oblivious, 42. instrument, 43. Wrap, 44. mitigate, 45. undergo, 46. reconstruct, 47. biomes, 48. addition,

49. Her research team made an important \_\_\_\_\_.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
50. Plants are \_\_\_\_\_ meaning they produce their nutrition.
- n.* a living thing capable of producing sustenance from essential chemical compounds such as carbon dioxide.
51. The shape of the DNA \_\_\_\_\_ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
52. The \_\_\_\_\_ train was packed with commuters during rush hour.
- n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
53. \_\_\_\_\_ algorithms can find ways to optimize that humans do not anticipate.
- adj.* relating to or denoting how living things develop or change from earlier forms
54. 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
55. I've included the two designs for a \_\_\_\_\_.
- n.* the consideration or examination of the similarities between two or more people or things
56. The volcanic \_\_\_\_\_ caused widespread destruction and left the area covered in ash.
- n.* an instance of a sudden and violent release of lava, gas, or ash from a volcano; a sudden outburst or explosion of something

ANSWERS: 49. discovery, 50. autotrophs, 51. molecule, 52. tube, 53. Evolutionary, 54. monitor, 55. comparison, 56. eruption

57. The \_\_\_\_\_ of getting the disease will drastically increase.

*n.* a chance that something may happen or be true

58. His estate was \_\_\_\_\_ to his sons.

*v.* to give something to a large number of individuals, or to spread or furnish something

59. Water was beginning to \_\_\_\_\_ into the basement after the heavy rain.

*v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

60. Which \_\_\_\_\_ of the company do you work in?

*n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector

61. The \_\_\_\_\_ of the bees filled the air as she walked through the garden.

*adj.* producing a continuous, low, vibrating sound like that of the bee

62. The firm has grown into a large \_\_\_\_\_ manufacturing.

*adj.* relating to or connected with chemistry;

63. Having \_\_\_\_\_ parking has been very beneficial throughout the winter.

*adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

64. She \_\_\_\_\_ the toothpaste tube from the middle to get the last bit out.

*v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

ANSWERS: 57. possibility, 58. distributed, 59. trickle, 60. division, 61. humming, 62. chemical, 63. underground, 64. squeezed

65. 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
66. Can you \_\_\_\_\_ 123321 by eleven?
- v.* to separate or cause to separate into parts or groups
67. The \_\_\_\_\_ politician made a splash in the election, challenging the established incumbents.
- n.* a person who has recently risen to a position of power, especially one who behaves arrogantly; an ambitious or presumptuous newcomer
68. The blood's red coloring comes from iron \_\_\_\_\_.
- n.* a chemical compound that contains at least one oxygen atom and one other element
69. My sister and I frequently \_\_\_\_\_ books, as we love reading.
- v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
70. \_\_\_\_\_ 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
71. The company's financial records \_\_\_\_\_ how successful it has been.
- v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation

ANSWERS: 65. institutes, 66. divide, 67. upstart, 68. oxide, 69. exchange, 70. Microbes, 71. illustrate



72. I was able to get \_\_\_\_\_ of the concert tickets before they sold out.

*adv.* to take hold of something, to grasp firmly

73. A technique called deep learning has led to \_\_\_\_\_ in AI.

*n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

74. Their headquarters are in a \_\_\_\_\_ skyscraper.

*adj.* of or belonging to the present time or recent times

75. Human conservation efforts often fail unexpectedly because they disturb the balance of the \_\_\_\_\_.

*n.* all the plants and living creatures in an area and the way they affect each other and the environment

76. The old car was covered in \_\_\_\_\_ and needed extensive repair work.

*n.* a reddish-brown coating or corrosion layer that forms on iron or steel as a result of exposure to moisture and oxygen; the process of corrosion on metal caused by oxidation

77. His poem has a very significant \_\_\_\_\_.

*n.* something that is inferred or indirectly stated; the act or fact of being involved in something

78. The \_\_\_\_\_ surrounding the disappearance of the traveler has yet to be solved by authorities.

*n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 72. ahold, 73. breakthroughs, 74. modern, 75. ecosystem, 76. rust, 77. implication, 78. mystery

79. The bread's \_\_\_\_\_ was golden brown and crispy.

*n.* a hard outer layer that forms on the surface of a liquid as it cools or on a solid as a result of exposure to air or moisture

80. \_\_\_\_\_ design has become more focused on human nature aspect than ever before.

*adj.* of or relating to or resulting from industry

81. \_\_\_\_\_ compounds are commonly used to manufacture fertilizers to promote plant growth.

*n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element

82. They have been living near water since \_\_\_\_\_ times.

*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

83. He was pretty \_\_\_\_\_ to pass the exam.

*adj.* having good luck or lucky

84. The drought led to widespread \_\_\_\_\_ in the region.

*n.* a severe lack of food that leads to malnutrition and, ultimately, death

85. He regretted having undertaken the \_\_\_\_\_ job without thinking about the consequences.

*adj.* not important

86. The statement had a \_\_\_\_\_ impact on house prices.

*adj.* very sudden, very excellent, or full of action and excitement

ANSWERS: 79. crust, 80. Industrial, 81. Phosphorus, 82. ancient, 83. fortunate, 84. starvation, 85. unimportant, 86. dramatic

87. Eyeless fish \_\_\_\_\_ in dark caves.

- v.* to develop gradually, or to cause the development of something or someone gradually

88. The side effects of \_\_\_\_\_ such as nausea and hair loss, were a major concern for the patient.

- n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells

89. If you don't eat soon, you're going to \_\_\_\_\_.

- v.* to suffer or die from lack of food; to cause someone or something to suffer or die from lack of food; to deprive something of necessary nourishment or sustenance

90. My mother taught me how to \_\_\_\_\_.

- v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle

91. The garden was filled with \_\_\_\_\_ and needed to be tilled before planting.

- n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock

92. He \_\_\_\_\_ the letter with hot wax.

- v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

93. The \_\_\_\_\_ emissions from the nearby factory caused the rotten egg smell.

- n.* (also sulphur) a chemical element with the symbol S and atomic number 16, found in many minerals and sulfur compounds, often used in the production of fertilizers, rubber, paper, and other industrial applications

ANSWERS: 87. evolved, 88. chemo, 89. starve, 90. sew, 91. dirt, 92. sealed, 93. sulfur

94. My computer has been acting \_\_\_\_\_ recently.

*adj.* extraordinary, unexpected, or difficult to explain

95. The food chain causes a material \_\_\_\_\_.

*n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

96. The school sent a notice of a \_\_\_\_\_ case in one of the classrooms.

*n.* a highly infectious viral disease that causes fever, red spots on the skin, and other flu-like symptoms, typically affects children

97. The \_\_\_\_\_ waves crashed against the shore, creating a mesmerizing sight.

*adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface

98. The disease can remain \_\_\_\_\_ for years before it presents any symptoms.

*adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances

99. An enormous \_\_\_\_\_ marks the area where the vast volcanic explosion occurred.

*n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

100. You must \_\_\_\_\_ with others to obtain this position.

*v.* to strive to achieve more success than someone or something

101. In junior high school, we had to dissect a frog in \_\_\_\_\_ class.

*n.* the scientific study of life and the natural processes of living things

ANSWERS: 94. weird, 95. cycle, 96. measles, 97. oceanic, 98. dormant, 99. crater, 100. compete, 101. biology

102. The presence of \_\_\_\_\_ in the soil can influence the soil's acidity levels.  
*n.* a yellowish mineral consisting of iron disulfide, typically found in granular form and often known as "fool's gold" due to its resemblance to gold
103. The \_\_\_\_\_ of water is called ice.  
*adj.* hard or firm; characterized by good substantial quality
104. Clouds form when water \_\_\_\_\_ rises to the upper atmosphere.  
*n.* a mass of tiny liquid drops in the air
105. He slightly modified the \_\_\_\_\_ of training because it was just before a match.  
*n.* the entire length of something, such as time or space from beginning to end; the amount of space that something covers
106. The colorful \_\_\_\_\_ bird is native to Central and South America.  
*n.* a tropical bird characterized by a large, colorful beak that is native to Central and South America, also known for its brightly colored feathers and distinctive calls
107. They used fast-acting \_\_\_\_\_ on the flowers in the flower beds.  
*n.* any substance that is essential for the maintenance and growth of living things
108. \_\_\_\_\_ species have drastically altered the ecosystem in this area.  
*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
109. The movie was \_\_\_\_\_ dramatic, with exaggerated emotions and cliched plot twists.  
*adv.* to a greater degree than is appropriate or desirable

ANSWERS: 102. pyrite, 103. solid-state, 104. vapor, 105. span, 106. toucan, 107. nutrients, 108. Alien, 109. overly

110. The Great Pyramid of Giza was built using blocks of \_\_\_\_\_.

*n.* a sedimentary rock that is composed mainly of calcium carbonate, which is the mineral calcite

111. The island was formed by a \_\_\_\_\_ millions of years ago.

*n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

112. The budget reduction was an \_\_\_\_\_ feat for our nation.

*adj.* arousing admiration due to size, quality, or skill

113. He did \_\_\_\_\_ pen-and-ink drawings in just a few days.

*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

114. The explosive chemical reaction does not occur in all sodium \_\_\_\_\_.

*n.* a carbonic acid salt or ester that contains the anion CO<sub>3</sub>

115. The golfer recorded an \_\_\_\_\_ distance.

*adj.* extremely surprising, especially in a way that you like or admire

116. You \_\_\_\_\_ a bill in the change machine, and the coins pop out.

*v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

117. \_\_\_\_\_ dioxide is used as a catalyst in some chemical reactions.

*n.* a chemical element with the symbol Mn and atomic number 25, commonly used in steel production and other alloys

ANSWERS: 110. limestone, 111. volcano, 112. impressive, 113. complicated, 114. carbonate, 115. amazing, 116. stick, 117. Manganese

118. 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

119. The wallpaper had a pattern of pink \_\_\_\_\_ on a white surface.

- n.* a very small circular mark, especially one that is printed

120. Our plan includes a comprehensive marketing \_\_\_\_\_.

- n.* a detailed plan of action designed to achieve a long-term or overall goal.

121. The \_\_\_\_\_ for all my hard work was finally getting a promotion.

- n.* the outcome or result of an action or series of actions; the return or reward gained from an investment, effort, or risk

122. The study of Escherichia \_\_\_\_\_ has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.

- n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

123. The teacher attempted to \_\_\_\_\_ the root cause of our mistake.

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

124. 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

125. Your spinal \_\_\_\_\_ is located deep within your body.

- n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

ANSWERS: 118. pH, 119. dots, 120. strategy, 121. payoff, 122. coli, 123. analyze, 124. carbon, 125. cord

126. The \_\_\_\_\_ team worked quickly to save the patient's life.

*adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

127. The art gallery showcased a collection of colorful \_\_\_\_\_ prints by renowned artists.

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

128. The accident at that nuclear power plant \_\_\_\_\_ the local ecosystem.

*v.* to wipe out, destroy, or conceal all signs of something utterly; to remove completely from recognition or memory

129. \_\_\_\_\_ gas is used to inflate car tires because it does not react with rubber.

*n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

130. Her remarks \_\_\_\_\_ the debate.

*v.* to mistake one thing for another; to make somebody hard to understand

131. She turned \_\_\_\_\_ when she heard the news.

*adj.* having skin that is very light colored; lacking in vitality or interest or effectiveness

132. 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

133. There are various hypotheses concerning the \_\_\_\_\_ of life.

*n.* the first existence or beginning of something

ANSWERS: 126. medical, 127. lithographic, 128. obliterated, 129. Nitrogen, 130. confused, 131. pale, 132. planet, 133. origin



134. It was \_\_\_\_\_ to quit her job and start her own business.

*adj.* displaying courage, determination, or boldness; characterized by a willingness to take risks or face challenges

135. Many famous \_\_\_\_\_ are within walking distance.

*n.* the ability to see; anything that is seen

136. His final goal is to sail around the \_\_\_\_\_.

*n.* the earth or world, mainly used to emphasize its vastness

137. The penny fell \_\_\_\_\_ the piano.

*adv.* under or below something else

138. Ozone is a primary \_\_\_\_\_ to protect Earth's surface from harmful UV rays.

*n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

139. The cost of the antique vase is three \_\_\_\_\_.

*n.* a former British gold coin worth 21 shillings or a unit of currency used in some West African countries; (Guinea) a republic in western Africa on the Atlantic

140. They removed \_\_\_\_\_ content from the slides.

*adj.* not connected with or related to something and therefore not important

141. He was sick for five \_\_\_\_\_ days.

*adj.* extending or moving in one direction without bending or curving; having no deviations

142. I need to \_\_\_\_\_ why my computer keeps freezing.

*v.* to identify and solve problems or difficulties, particularly in mechanical or technical systems or situations

ANSWERS: 134. gutsy, 135. sights, 136. globe, 137. underneath, 138. filter, 139. guineas, 140. irrelevant, 141. straight, 142. troubleshoot

143. The \_\_\_\_\_ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
144. The scientist conducted a study that provided \_\_\_\_\_ details about the species' behavior.
- adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
145. The gut \_\_\_\_\_ is a major producer of serotonin, which is necessary for human mental stability.
- n.* the community of microorganisms (= living things too small to be seen) that can usually be found living together in any given environment or the human body
146. Infrared cameras detect \_\_\_\_\_ in the infrared range of the electromagnetic spectrum.
- n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
147. The deep-sea hydrothermal vents provide the perfect environment for \_\_\_\_\_ to thrive.
- n.* a type of organism that obtains energy by oxidizing inorganic compounds such as ammonia or sulfur and using carbon dioxide as a carbon source, often found in extreme environments such as deep-sea hydrothermal vents
148. The rain and thunder are \_\_\_\_\_ today.
- adj.* stupid or not sensible; very angry
149. He told me a \_\_\_\_\_ truth about my parent's death.
- n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant

ANSWERS: 143. engineer, 144. specific, 145. microbiome, 146. photons, 147. chemolithoautotrophs, 148. crazy, 149. gut-wrenching

150. \_\_\_\_\_ willingly accept business risks to achieve success.
- n.* an individual who creates or invests in one or more businesses, especially when this involves taking financial risks
151. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
152. This evidence supports the big-bang \_\_\_\_\_.
- n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
153. The \_\_\_\_\_ veteran shared his war stories and experiences with the young soldiers.
- adj.* having gray or partly gray hair; having a worn or weathered appearance; marked by experience or endurance
154. X-ray inspection revealed many \_\_\_\_\_.
- n.* the breaking or cracking of a rigid material or object such as bone
155. The \_\_\_\_\_ tree in the park provides shade for picnickers on hot summer days.
- n.* a genus of flowering plants in the family Moraceae, commonly known as fig trees or figs, characterized by their large, lobed leaves and edible fruit
156. The \_\_\_\_\_ accident caused the car to flip over and land on its roof.
- n.* an abnormality that is not typical or expected
157. She had a tattoo just above her \_\_\_\_\_ button.
- n.* the front part of the body below the chest, containing the stomach and bowels; the rounded or curved part of an object, such as a ship or aircraft

ANSWERS: 150. Entrepreneurs, 151. chemistry, 152. hypothesis, 153. grizzled, 154. fractures, 155. ficus, 156. freak, 157. belly

158. Actuators convert \_\_\_\_\_ pulses into motion.

*adj.* relating to electricity

159. 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

160. 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

161. They launched a crewless \_\_\_\_\_ into space.

*n.* (especially in science fiction) a spacecraft designed to carry a crew into interstellar space

162. How did he \_\_\_\_\_ to your idea?

*v.* to take action in response to something

163. Battles between whites and blacks \_\_\_\_\_ immediately.

*v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

164. The cost of the new equipment was \_\_\_\_\_ and beyond the company's budget.

*adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

165. These birds can only \_\_\_\_\_ in temperate climates.

*v.* to live or exist despite a dangerous event or period

ANSWERS: 158. electrical, 159. atmosphere, 160. oxygen, 161. spaceship, 162. react, 163. erupted, 164. astronomical, 165. survive

166. Many people worry that the current real estate market is a \_\_\_\_\_ that could burst soon.
- n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
167. 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
168. The robust economy of the country is based on its \_\_\_\_\_ resources.
- n.* a solid inorganic substance occurring in nature having a definite chemical composition
169. During pregnancy, the stomach generates less \_\_\_\_\_ than usual.
- n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
170. Product development is a \_\_\_\_\_ effort.
- adj.* done or shared by every member of a group of people
171. The plant had a \_\_\_\_\_ appearance, indicating that it was not getting enough water.
- adj.* without life; dead
172. It isn't very reasonable to \_\_\_\_\_ money with happiness.
- v.* to consider or describe one thing as similar, equal, or analogous
173. The \_\_\_\_\_ slow movements are a product of their physiology.
- n.* laziness or lack of energy or motivation to do something; a slow-moving, arboreal mammal found in Central and South America

ANSWERS: 166. bubble, 167. snorkel, 168. mineral, 169. acid, 170. collective, 171. lifeless, 172. equate, 173. sloth's

174. Large earthquakes often generate \_\_\_\_\_ tsunamis.

*adj.* very frightening or intimidating

175. After returning from the war, he had a pretty \_\_\_\_\_ life.

*adj.* very ordinary and therefore lacking interest or excitement

176. 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

177. The possibilities for scientific discovery are \_\_\_\_\_.

*adj.* without end, limit, or boundary; infinite

ANSWERS: 174. terrifying, 175. mundane, 176. process, 177. limitless