

# Englist.me



## Vocabulary Builder Reference from...

*Tara Djokic: This ancient rock is changing our theory on the origin of life | TED Talk*

[https://www.ted.com/talks/tara\\_djokic\\_this\\_ancient\\_rock\\_is\\_changing\\_our\\_theory\\_on\\_the\\_origin\\_of\\_life](https://www.ted.com/talks/tara_djokic_this_ancient_rock_is_changing_our_theory_on_the_origin_of_life)

### All Words

#### IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

## Session 1: Word List

### lifetime

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

(1) **lifetime** benefits, (2) **lifetime** ban from the sport  
She had lived through two world wars in her **lifetime**.

### 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.

### distant

*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

*synonym* : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors  
The sun set over the crest of **distant** hills.

### inconsequential

*adj.* of little or no importance or significance; trivial or negligible

*synonym* : insignificant, trivial, minor

(1) **inconsequential** details, (2) **inconsequential** effect  
The mistake was **inconsequential** and did not significantly

impact the outcome.

## spark

*v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity

*synonym*: start, inspire, provoke

(1) **spark** his interest, (2) **spark** a chain reaction

The bankruptcy of the giant conglomerate **sparked** turmoil in the stock market.

## tectonics

*n.* the study of the processes that shape the Earth's surface, including the movements of tectonic plates, earthquakes, and volcanic activity

*synonym*: geology, plate tectonics, earth movements

(1) plate **tectonics**, (2) collision **tectonics**

Global **tectonics** plays a critical role in the formation of mountain ranges and the movement of Earth's crustal plates.

## liquid

*n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

*synonym*: fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

## 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.

## 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**.

## 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.

## pivotal

*adj.* relating to or acting as a pivot or central point; crucial or essential to the success or outcome of something

*synonym* : crucial, essential, important

(1) **pivotal** moment, (2) **pivotal** role

The CEO's decision was **pivotal** in the success of the company's expansion plans.

## evolution

*n.* a gradual process of transformation of living things

*synonym* : elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

## observe

*v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

*synonym* : watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

## crawl

*v.* to move forward slowly, as people or animals with their bodies near the ground

*synonym* : creep, drag

(1) **crawl** across the floor, (2) **crawl** away from a car

Along the gravel roads, sizeable yellow school buses **crawl**.

## microscopic

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

*synonym* : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis  
Inspectors noticed **microscopic** cracks in the submarine's hull.

## bacteria

*n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

*synonym*: microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**  
**Bacteria** prevalent in hospitals are often resistant to antibiotics.

## fossil

*n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

*synonym*: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf  
It was the **fossil** of a dinosaur tooth.

## preserve

*v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

*synonym*: conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage  
They worked hard to **preserve** the nature of their native lands.

## structure

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

*synonym*: construction, architecture, establishment

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

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

## stromatolite

*n.* a type of fossilized microbial mat formed by the growth and mineralization of cyanobacteria and other microorganisms, typically found in ancient sedimentary rocks and of great significance to the study of the Earth's early history and evolution

*synonym* : microbialite, fossilized stromatolite

(1) ancient **stromatolite**, (2) microbial **stromatolite** formation

The **stromatolite** fossils provide important clues about the early evolution of life on Earth.

## trace

*v.* to find or discover someone or something that was lost

*synonym* : seek, follow, depict

(1) **trace** a telephone call, (2) **trace** back to medieval times

Let's **trace** the origins of some familiar foreign words.

## grab

*v.* to take hold of something or someone suddenly with a hand, especially in a violent way

*synonym* : clutch, snatch, grasp

(1) **grab** an audience, (2) **grab** an opportunity

Shall we **grab** a bite to eat?

## foothold

*n.* a secure or reliable position in a particular situation, allowing for further progress or expansion; a firm grip or support on a surface

*synonym* : toehold, base, foundation

(1) establish a **foothold**, (2) military **foothold**

The company is looking to gain a **foothold** in the emerging market.

## destroy

*v.* to ruin or damage severely or completely; to eradicate or eliminate completely

*synonym* : demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

## deformity

*n.* a physical abnormality or distortion

*synonym*: abnormality, malformation, disfigurement

(1) **deformity** of character, (2) physical **deformity**

The **deformity** in the steel beam caused the bridge to collapse.

## puzzle

*n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

*synonym*: plight, maze, (verb) perplex

(1) crossword **puzzle**, (2) mathematical **puzzle**

This jigsaw **puzzle** is challenging because there are no pictures.

## volcanic

*adj.* relating to or produced by or consisting of volcano

(1) effects of **volcanic** eruptions, (2) increase in **volcanic** activity

This study indicates **volcanic** activity affects global warming.

## landscape

*n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

*synonym*: geography, terrain, topography

(1) a peaceful **landscape**, (2) **landscape** painting

Recent electoral shocks have shaken the political **landscape** in Europe.

## clue

*n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

*synonym*: hint, indication, inkling

(1) a **clue** about the crime, (2) a **clue** to the diagnosis

The police couldn't find a **clue** to her whereabouts.

## 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.

## **bunch**

*n.* a grouping of several similar things which are growing or fastened together

*synonym* : group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

## **wrinkle**

*n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

*synonym* : crinkle, fold, crumple

(1) a fine **wrinkle** on a fabric, (2) a facial **wrinkle**

This suit is made of **wrinkle-proof** material.

## **mound**

*n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap

*synonym* : hill, knoll, rise

(1) **mound** of dirt, (2) burial **mound**

The team discovered a hidden **mound** in the desert.

## **peculiar**

*adj.* odd and uncommon, sometimes in an unpleasant way

*synonym* : bizarre, abnormal, odd

(1) **peculiar** way, (2) **peculiar** people

The juice has a **peculiar** taste.

## **inspect**

*v.* to look at someone or something closely, usually to examine their condition or to detect flaws

*synonym* : check, examine, review

(1) **inspect** a plant, (2) **inspect** the enemy's movements

The employee had to wait outside while police **inspected** the building.

## **microscope**

*n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

*synonym* : lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

## mentor

*n.* a person who helps and advises a younger or less experienced person over time, usually at work or school  
*synonym*: adviser, coach, tutor

(1) **mentor** for life, (2) fashion **mentor**

As a **mentor**, he helped me realize my career.

## resemble

*v.* to look like or be similar to someone or something  
*synonym*: look like, be similar to

(1) **resemble** each other, (2) **resemble** her mother

The brothers **resemble** each other in the hobby.

## hook

*n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook  
*synonym*: buckle, pin, curve

(1) a hat **hook**, (2) the curved shape of a **hook**

Please hang your towel on a **hook**.

## pond

*n.* a small, shallow lake  
*synonym*: lake, pool, basin

(1) a garden **pond**, (2) **pond** water

The freshwater **pond** was home to many different types of fish and was a popular spot for fishing.

## 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.

## 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.

## complexity

*n.* the state or quality of being complicated or intricate and difficult to understand

*synonym*: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

## environment

*n.* the natural world such as air, water, and land in which humans, animals, and plants live

*synonym*: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

## dissolve

*v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

*synonym*: disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

## 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.

## underlying

*adj.* significant as a cause or basis of something but not immediately apparent or stated clearly

*synonym*: fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

## organic

*adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

*synonym* : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

## compound

*n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

*synonym* : combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

## manufacture

*v.* to make goods in large numbers, usually in a factory using machines

*synonym* : create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

## cellular

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

*synonym* : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

## hydrothermal

*adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result

*synonym* : geothermal, thermal, volcanic

(1) **hydrothermal** vents, (2) **hydrothermal** chemistry

The **hydrothermal** activity in this area creates a unique environment for marine creatures.

## vent

*n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

*synonym* : duct, outlet, venthole

(1) volcanic **vent**, (2) **vent** tube

He gave **vent** to his anger by playing the guitar.

## 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**.

## locate

*v.* to specify or determine the exact position of someone or something

*synonym* : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

## arc

*n.* the shape of a portion of a circle or other curved line

*synonym* : turn, bow, angle

(1) the **arc** current, (2) an **arc** of a circumference

A ball flew in a big **arc**.

## billow

*v.* to surge or rise in a large, swelling mass, especially of smoke or water; (noun) a large wave or swell of something, especially water or smoke

*synonym* : wave, swell, surge

(1) **billow** cloud, (2) **billow** like a sail

The smoke **billowed** out of the chimney and into the sky.

## chimney

*n.* a vertical structure that channels smoke or gas from a fire or furnace out of a building; a hollow column or tube that facilitates air or fluid flow throughout a system

*synonym* : flue, smokestack, stack

(1) smoke **chimney**, (2) **chimney** sweep

The **chimney** in the factory was constantly emitting dark smoke.

## fluid

*n.* a substance that can flow and is not solid

*synonym*: liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

## scenario

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

*synonym*: plan, scheme, procedure

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

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

## probabilistic

*adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

*synonym*: probable, statistical, likely

(1) **probabilistic** model, (2) **probabilistic** approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

## 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.

## alternative

*n.* one of two or more available possibilities or choice

*synonym*: choice, option

(1) an **alternative** plan, (2) there is no other **alternative**

Doctors are gradually coming around to the idea of using **alternative** medicines.

## perspective

*n.* a confident attitude toward something; a particular style of thinking about something

*synonym* : viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle  
His father's death changed his whole **perspective** on life.

## conclude

*v.* to come to an end or close; to reach a judgment or opinion by reasoning

*synonym* : complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy  
We **concluded** a cease-fire.

## 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.

## 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.

## candid

*adj.* honest, straightforward, and frank in someone's words or actions

*synonym* : honest, frank, straightforward

(1) **candid** conversation, (2) in my **candid** opinion

The **candid** photography captured the genuine emotions of the moment.

## debatable

*adj.* open to discussion or argument; capable of being disputed or doubted

*synonym* : questionable, uncertain, open to discussion

(1) the validity of the theory is **debatable**, (2) **debatable**

topic

Whether or not extraterrestrial life exists is still **debatable** among scientists.

### flourish

*v.* to grow or develop vigorously or successfully

*synonym*: boom, advance, succeed

(1) **flourish** economically, (2) **flourish** worldwide

The Ottoman Empire **flourished** for over five centuries.

### diversified

*adj.* characterized by diversity or variety; having different forms or types

*synonym*: varied, assorted, heterogeneous

(1) **diversified** portfolio, (2) **diversified** economy

The **diversified** menu offered options for everyone, from meat-eaters to vegetarians.

### eventually

*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

*synonym*: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

### cosmic

*adj.* relating to the universe or cosmos; vast or limitless

*synonym*: astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

**Cosmic** rays are high-energy particles that originate from outside the solar system.

### communal

*adj.* belonging to or used by a group rather than individuals; for common use

*synonym*: collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

**Communal** elections were held in several European

countries.

## geologist

*n.* a scientist or specialist who studies geology

(1) planetary **geologist**, (2) marine **geologist**

These issues baffled **geologists** for many years.

## refer

*v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

*synonym*: cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

## 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**.

## imply

*v.* to indicate the truth or existence of something without referring to it

*synonym*: hint, indicate, denote

(1) **imply** a strong correlation, (2) **imply** the presence of alien

The salespeople speak in technical terms to **imply** that they are more knowledgeable than the customer.

## meter

*n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

*synonym*: gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

## exposed

*adj.* having no protection or shield from something, such as bad weather, attack, or criticism

*synonym*: endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock  
Tech companies often employ **exposed** ducts and other materials in their office interiors.

## gorge

*n.* a deep narrow valley between hills or mountains, usually with steep sides and a river running through it

*synonym*: canyon, gully, ravine

(1) cast the **gorge**, (2) the **gorges** of the Yangtse River  
We must pass through the narrow **gorge** with a stream running through it.

## carve

*v.* to create something by cutting wood or stone; to turn sharply

*synonym*: sculpt, engrave, cut

(1) **carve** a statue, (2) **carve** my name on the plate  
This statue is **carved** from a single tree trunk.

## nation

*n.* a large organized community of people living in a particular country or region and having a particular culture

*synonym*: country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**  
The **nation** of Japan is known for its unique culture and advanced technology.

## arrival

*n.* the act or situation of coming or being brought to a place; accomplishment of an objective

*synonym*: reaching, appearance, coming

(1) **arrival** and departure gate, (2) **arrival** at a conclusion  
Weather forecasters are predicting the **arrival** of a heatwave.

## 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.



**ozone**

*n.* a poisonous gas with the chemical formula O<sub>3</sub>, which has a strong smell

(1) **ozone** depletion, (2) atmospheric **ozone**

The **ozone** layer is vital for blocking some harmful sun rays.

**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.

**radiation**

*n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

*synonym*: dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

**ironic**

*adj.* using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect

*synonym*: sarcastic, wry, sardonic

(1) **ironic** result, (2) an **ironic** turn of events

It was **ironic** that the heavy rain started just as they set up for an outdoor picnic.

**twist**

*v.* to bend or turn something into a certain shape

*synonym*: wrench, turn, twirl

(1) **twist** around to the left, (2) **twist** a wet towel

He **twisted** pieces of rope out of straw.

**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.

## essence

*n.* the basic or most important part or quality of something that makes it what it is

*synonym*: core, nature, disposition

(1) vanilla **essence**, (2) universal **essence**

University teaches the art of understanding the **essence** of the matter.

## relinquish

*v.* to give up power, control, or possession

*synonym*: surrender, give up, abandon

(1) **relinquish** control, (2) **relinquish** all hope

She decided to **relinquish** her role as the leader of the group.

## reign

*n.* the period of time during which a monarch or government holds power; (verb) to be the king or queen

*synonym*: rule, governance, sovereignty

(1) **reign** of a dictator, (2) **reign** as sovereign

The dictator's **reign** was characterized by widespread human rights abuses and suppression of political opposition.

## fossilized

*adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

*synonym*: petrified, ossified, preserved

(1) obsolete **fossilized** ways, (2) a **fossilized** grove

The dinosaur bones were so old that they had been wholly **fossilized**, turning to stone over millions of years.

## fuel

*n.* a substance that is typically burned to generate heat or energy

*synonym*: energy, power, gas

(1) biomass **fuel**, (2) smokeless **fuel**

The **fuel** scarcity most severely impacted the manufacturing sector

## pump

*v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply

something such as money, information, etc. in significant quantities

*synonym* : drain, inject, send

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

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

## vast

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

*synonym* : expansive, extended, boundless

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

A **vast** audience viewed the broadcast.

## 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.

## predecessor

*n.* a person who held a position or office before the current holder

*synonym* : antecedent, forerunner, precursor

(1) the words of a **predecessor**, (2) **predecessor** model

The new CEO is the **predecessor** of the former CEO.

## substantial

*adj.* fairly large in size, value, or importance

*synonym* : significant, notable, actual

(1) a **substantial** amount of capital, (2) have a **substantial** meal

The pandemic was a **substantial** business opportunity for certain companies.

## encompass

*v.* to surround or cover something completely; to include a large number of or different types of things entirely

*synonym* : surround, encircle, include

(1) **encompass** a broad range, (2) **encompass** the enemy

The optimal solution that would **encompass** all these elements has yet to be proposed.

### unfortunately

*adv.* by bad luck; unluckily

*synonym* : regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

### demise

*n.* death or the end of something

*synonym* : death, passing, end

(1) **demise** of bureaucracy, (2) meet their **demise**

The sudden **demise** of the king was a shock to everyone and threw the kingdom into chaos.

### intelligent

*adj.* having the capacity for thought and reason, especially to a high degree

*synonym* : brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

**Intelligent** robots that can cooperate with humans have limited motor output for safety.

### extinguish

*v.* to cause a fire to stop burning or light to stop shining

*synonym* : quench, smother, blow out

(1) **extinguish** a cigarette, (2) **extinguish** the street lamp

Firefighters made every effort to **extinguish** the blaze immediately.

### suspect

*v.* to consider anything to be actual or probable

*synonym* : assume, distrust, surmise

(1) **suspect** a plot, (2) **suspect** that he is sick

The cops **suspected** him of being the killer.

### precious

*adj.* uncommon and extremely valuable

*synonym* : adored, cherished, valued

(1) price of **precious** metals, (2) **precious** information  
We cannot afford to squander **precious** time.

## represent

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

*synonym*: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

## speck

*n.* a very small spot, piece, or amount

*synonym*: blot, dot, mark

(1) a **speck** of dust, (2) **speck** of suspicion

The plane was just a **speck** in the sky.

## forecast

*n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

*synonym*: prediction, outlook, (verb) guess

(1) a weather **forecast**, (2) **forecast** an epidemic

Their team specializes in demand **forecasts** for our products.

## explanation

*n.* the information or arguments that someone provides to make something understandable or clear

*synonym*: description, elucidation, account

(1) the **explanation** for the failure, (2) detailed **explanation**

The following **explanation** is currently being used to explain the phenomenon in question.

## galaxy

*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

*synonym*: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

## Session 2: Spelling

- |                                    |   |
|------------------------------------|---|
| 1. int_____nt assisting system     | <i>adj.</i> having the capacity for thought and reason, especially to a high degree   |
| 2. chaotic env_____nt              | <i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live  |
| 3. plenty of fl__ds                | <i>n.</i> a substance that can flow and is not solid  |
| 4. the hydrogen binds the ox____n  | <i>n.</i> the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live  |
| 5. crossword pu___e                | <i>n.</i> a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand |
| 6. the go__es of the Yangtse River | <i>n.</i> a deep narrow valley between hills or mountains, usually with steep sides and a river running through it  |
| 7. re_____le each other            | <i>v.</i> to look like or be similar to someone or something  |
| 8. a seafaring na____n             | <i>n.</i> a large organized community of people living in a particular country or region and having a particular culture  |
| 9. me___r for life                 | <i>n.</i> a person who helps and advises a younger or less experienced person over time, usually at work or school  |

ANSWERS: 1. intelligent, 2. environment, 3. fluid, 4. oxygen, 5. puzzle, 6. gorge, 7. resemble, 8. nation, 9. mentor

- |                                     |   |
|-------------------------------------|---|
| 10. obsolete fos_____ed ways        | <i>adj.</i> transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible |
| 11. biomass f__l                    | <i>n.</i> a substance that is typically burned to generate heat or energy   |
| 12. mic_____ic inquiry              | <i>adj.</i> tiny; exceedingly precise and detail-oriented; of or used in microscopy   |
| 13. ca__e my name on the plate      | <i>v.</i> to create something by cutting wood or stone; to turn sharply   |
| 14. eve_____ly succeed              | <i>adv.</i> finally, particularly after a long time or a lot of struggle, complications, and so on  |
| 15. g__b an opportunity             | <i>v.</i> to take hold of something or someone suddenly with a hand, especially in a violent way  |
| 16. an_____t stories                | <i>adj.</i> relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old                           |
| 17. un_____o a decrease             | <i>v.</i> to go through something unpleasant or that involves a change  |
| 18. a peaceful la_____pe            | <i>n.</i> an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance           |
| 19. pre-mo___n agricultural society | <i>adj.</i> of or belonging to the present time or recent times   |
| 20. ar_____l and departure gate     | <i>n.</i> the act or situation of coming or being brought to a place; accomplishment of an objective  |

ANSWERS: 10. fossilized, 11. fuel, 12. microscopic, 13. carve, 14. eventually, 15. grab, 16. ancient, 17. undergo, 18. landscape, 19. modern, 20. arrival

21. pre\_\_\_\_\_or model *n.* a person who held a position or office before the current holder
22. colorless li\_\_\_\_d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
23. unf\_\_\_\_\_ely caught in a shower *adv.* by bad luck; unluckily
24. sp\_\_k his interest *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
25. an a\_c of a circumference *n.* the shape of a portion of a circle or other curved line
26. de\_\_\_\_\_y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
27. a weather fo\_\_\_\_\_st *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
28. ev\_\_\_\_e *v.* to develop gradually, or to cause the development of something or someone gradually
29. burning of fo\_\_\_\_l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
30. pe\_\_\_\_\_ar people *adj.* odd and uncommon, sometimes in an unpleasant way
31. a c\_\_e about the crime *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

ANSWERS: 21. predecessor, 22. liquid, 23. unfortunately, 24. spark, 25. arc, 26. destroy, 27. forecast, 28. evolve, 29. fossil, 30. peculiar, 31. clue



32. lo\_\_\_e a missing pet      *v.* to specify or determine the exact position of someone or something
33. racial or\_\_\_n      *n.* the first existence or beginning of something
34. hyd\_\_\_\_\_mal chemistry      *adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
35. the a\_c current      *n.* the shape of a portion of a circle or other curved line
36. g\_\_b an audience      *v.* to take hold of something or someone suddenly with a hand, especially in a violent way
37. ar\_\_\_\_\_l at a conclusion      *n.* the act or situation of coming or being brought to a place; accomplishment of an objective
38. poetic me\_\_r      *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
39. 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
40. im\_\_y a strong correlation      *v.* to indicate the truth or existence of something without referring to it
41. an ex\_\_\_\_\_d rock      *adj.* having no protection or shield from something, such as bad weather, attack, or criticism

ANSWERS: 32. locate, 33. origin, 34. hydrothermal, 35. arc, 36. grab, 37. arrival, 38. meter, 39. oxygen, 40. imply, 41. exposed

42. the words of a pre\_\_\_\_\_or  
*n.* a person who held a position or office before the current holder
43. ir\_\_\_c result  
*adj.* using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect
44. cr\_\_l across the floor  
*v.* to move forward slowly, as people or animals with their bodies near the ground
45. 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
46. a bu\_\_h of schoolgirls  
*n.* a grouping of several similar things which are growing or fastened together
47. na\_\_\_n-state  
*n.* a large organized community of people living in a particular country or region and having a particular culture
48. 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
49. de\_\_\_\_\_ty of character  
*n.* a physical abnormality or distortion
50. pathogenic mi\_\_\_\_\_e  
*n.* a tiny living thing that can only be seen with a microscope and that may cause disease
51. in\_\_\_\_\_t a plant  
*v.* to look at someone or something closely, usually to examine their condition or to detect flaws

ANSWERS: 42. predecessor, 43. ironic, 44. crawl, 45. discovery, 46. bunch, 47. nation, 48. discovery, 49. deformity, 50. microbe, 51. inspect

52. man\_\_\_\_\_re an enzyme      *v.* to make goods in large numbers, usually in a factory using machines
53. cast the go\_\_e      *n.* a deep narrow valley between hills or mountains, usually with steep sides and a river running through it
54. burial mo\_\_d      *n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap
55. effects of vo\_\_\_\_ic eruptions      *adj.* relating to or produced by or consisting of volcano
56. a garden p\_\_d      *n.* a small, shallow lake
57. ob\_\_\_\_\_e a tradition      *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
58. the validity of the theory is de\_\_\_\_\_le      *adj.* open to discussion or argument; capable of being disputed or doubted
59. fashion me\_\_\_\_r      *n.* a person who helps and advises a younger or less experienced person over time, usually at work or school
60. hazardous li\_\_\_\_d      *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
61. or\_\_\_\_\_c soils      *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

ANSWERS: 52. manufacture, 53. gorge, 54. mound, 55. volcanic, 56. pond, 57. observe, 58. debatable, 59. mentor, 60. liquid, 61. organic

62. a ch\_\_\_\_al compound      *adj.* relating to or connected with chemistry;
63. harmless ba\_\_\_\_ia      *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
64. ob\_\_\_\_e wildlife      *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
65. de\_\_\_\_le topic      *adj.* open to discussion or argument; capable of being disputed or doubted
66. local ge\_\_\_\_y      *n.* a science that deals with the history of the earth as recorded in rocks
67. there is no other alt\_\_\_\_ve      *n.* one of two or more available possibilities or choice
68. re\_\_n as sovereign      *n.* the period of time during which a monarch or government holds power; (verb) to be the king or queen
69. second co\_\_\_\_c velocity      *adj.* relating to the universe or cosmos; vast or limitless
70. silver ox\_\_e      *n.* a chemical compound that contains at least one oxygen atom and one other element
71. establish a fo\_\_\_\_ld      *n.* a secure or reliable position in a particular situation, allowing for further progress or expansion; a firm grip or support on a surface

ANSWERS: 62. chemical, 63. bacteria, 64. observe, 65. debatable, 66. geology, 67. alternative, 68. reign, 69. cosmic, 70. oxide, 71. foothold

72. tr\_\_e back to medieval times      *v.* to find or discover someone or something that was lost
73. oz\_\_e depletion      *n.* a poisonous gas with the chemical formula O<sub>3</sub>, which has a strong smell
74. microbial str\_\_\_\_\_ite formation      *n.* a type of fossilized microbial mat formed by the growth and mineralization of cyanobacteria and other microorganisms, typically found in ancient sedimentary rocks and of great significance to the study of the Earth's early history and evolution
75. cr\_\_l away from a car      *v.* to move forward slowly, as people or animals with their bodies near the ground
76. pathogenic ba\_\_\_\_\_ia      *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
77. bi\_\_\_w cloud      *v.* to surge or rise in a large, swelling mass, especially of smoke or water; (noun) a large wave or swell of something, especially water or smoke
78. pre-Christian an\_\_\_\_\_t      *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
79. mo\_\_\_n poetry      *adj.* of or belonging to the present time or recent times
80. man\_\_\_\_\_re a product      *v.* to make goods in large numbers, usually in a factory using machines

ANSWERS: 72. trace, 73. ozone, 74. stromatolite, 75. crawl, 76. bacteria, 77. billow, 78. ancient, 79. modern, 80. manufacture

81. ancient str\_\_\_\_\_ite                      *n.* a type of fossilized microbial mat formed by the growth and mineralization of cyanobacteria and other microorganisms, typically found in ancient sedimentary rocks and of great significance to the study of the Earth's early history and evolution
82. mo\_\_d of dirt                                      *n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap
83. the curved shape of a h\_\_k                      *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
84. re\_\_n of a dictator                                *n.* the period of time during which a monarch or government holds power; (verb) to be the king or queen
85. a ce\_\_\_\_\_ar phone handset                      *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
86. toxic ch\_\_\_\_\_als                                      *adj.* relating to or connected with chemistry;
87. co\_\_\_\_\_de a meeting                                *v.* to come to an end or close; to reach a judgment or opinion by reasoning
88. p\_\_p blood throughout the body                      *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

ANSWERS: 81. stromatolite, 82. mound, 83. hook, 84. reign, 85. cellular, 86. chemical, 87. conclude, 88. pump

89. eve\_\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
90. v\_\_t desert *adj.* enormous in size, number, amount, or quantity
91. de\_\_\_\_\_yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
92. su\_\_\_\_\_t a plot *v.* to consider anything to be actual or probable
93. sp\_\_k of suspicion *n.* a very small spot, piece, or amount
94. the exp\_\_\_\_\_on for the failure *n.* the information or arguments that someone provides to make something understandable or clear
95. smokeless f\_\_l *n.* a substance that is typically burned to generate heat or energy
96. di\_\_\_\_\_ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
97. smoke ch\_\_\_\_\_y *n.* a vertical structure that channels smoke or gas from a fire or furnace out of a building; a hollow column or tube that facilitates air or fluid flow throughout a system
98. ex\_\_\_\_\_d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
99. bi\_\_\_w like a sail *v.* to surge or rise in a large, swelling mass, especially of smoke or water; (noun) a large wave or swell of something, especially water or smoke

ANSWERS: 89. eventually, 90. vast, 91. destroy, 92. suspect, 93. speck, 94. explanation, 95. fuel, 96. dissolve, 97. chimney, 98. exposed, 99. billow

100. pr\_\_\_\_ve my strength      *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
101. aquatic co\_\_\_\_nd      *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
102. li\_\_\_\_me ban from the sport      *n.* the duration of someone's life or something's existence;
103. su\_\_\_\_t that he is sick      *v.* to consider anything to be actual or probable
104. re\_\_r to a book      *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
105. env\_\_\_\_nt affairs      *n.* the natural world such as air, water, and land in which humans, animals, and plants live
106. co\_\_\_\_al swimming pool      *adj.* belonging to or used by a group rather than individuals; for common use
107. rel\_\_\_\_sh all hope      *v.* to give up power, control, or possession
108. de\_\_\_e of bureaucracy      *n.* death or the end of something
109. a ga\_\_\_y of famous actors      *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
110. a fos\_\_\_\_ed grove      *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

ANSWERS: 100. preserve, 101. compound, 102. lifetime, 103. suspect, 104. refer, 105. environment, 106. communal, 107. relinquish, 108. demise, 109. galaxy, 110. fossilized



111. exposure to ra\_\_\_\_\_on      *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
112. pro\_\_\_\_\_tic approach      *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
113. 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
114. have a sub\_\_\_\_\_al meal      *adj.* fairly large in size, value, or importance
115. an ab\_\_\_\_\_nt supply of water      *adj.* present in great quantity
116. mathematical pu\_\_\_e      *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
117. a facial wr\_\_\_\_\_e      *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
118. eat or\_\_\_\_\_c food      *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
119. mi\_\_\_\_\_l rights      *n.* a solid inorganic substance occurring in nature having a definite chemical composition

ANSWERS: 111. radiation, 112. probabilistic, 113. carbon, 114. substantial, 115. abundant, 116. puzzle, 117. wrinkle, 118. organic, 119. mineral

120. or\_\_\_n of information *n.* the first existence or beginning of something
121. price of pr\_\_\_\_us metals *adj.* uncommon and extremely valuable
122. en\_\_\_\_\_ss a broad range *v.* to surround or cover something completely; to include a large number of or different types of things entirely
123. st\_\_\_\_\_re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
124. elliptic ga\_\_\_y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
125. officially di\_\_\_\_\_ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
126. physical de\_\_\_\_\_ty *n.* a physical abnormality or distortion
127. mic\_\_\_\_\_pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
128. tw\_\_t a wet towel *v.* to bend or turn something into a certain shape
129. rel\_\_\_\_\_sh control *v.* to give up power, control, or possession
130. in\_\_\_\_\_t the enemy's movements *v.* to look at someone or something closely, usually to examine their condition or to detect flaws
131. the worst case sc\_\_\_\_\_io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work

ANSWERS: 120. origin, 121. precious, 122. encompass, 123. structure, 124. galaxy, 125. dissolve, 126. deformity, 127. microscope, 128. twist, 129. relinquish, 130. inspect, 131. scenario

132. plate te\_\_\_\_\_cs  
*n.* the study of the processes that shape the Earth's surface, including the movements of tectonic plates, earthquakes, and volcanic activity
133. pe\_\_\_\_\_ar way  
*adj.* odd and uncommon, sometimes in an unpleasant way
134. hyd\_\_\_\_\_mal vents  
*adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result
135. planetary ge\_\_\_\_\_st  
*n.* a scientist or specialist who studies geology
136. ch\_\_\_\_\_y sweep  
*n.* a vertical structure that channels smoke or gas from a fire or furnace out of a building; a hollow column or tube that facilitates air or fluid flow throughout a system
137. in my ca\_\_\_\_d opinion  
*adj.* honest, straightforward, and frank in someone's words or actions
138. div\_\_\_\_\_ed portfolio  
*adj.* characterized by diversity or variety; having different forms or types
139. pr\_\_\_\_\_us information  
*adj.* uncommon and extremely valuable
140. v\_\_t tube  
*n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
141. 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

ANSWERS: 132. tectonics, 133. peculiar, 134. hydrothermal, 135. geologist, 136. chimney, 137. candid, 138. diversified, 139. precious, 140. vent, 141. atmosphere

142. v\_\_t majority *adj.* enormous in size, number, amount, or quantity
143. 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.
144. p\_\_p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
145. the characters that re\_\_\_\_nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
146. ce\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
147. fl\_\_d assets *n.* a substance that can flow and is not solid
148. atmospheric oz\_\_e *n.* a poisonous gas with the chemical formula O<sub>3</sub>, which has a strong smell
149. even more unf\_\_\_\_ely *adv.* by bad luck; unluckily
150. combined ox\_\_e *n.* a chemical compound that contains at least one oxygen atom and one other element
151. div\_\_\_\_ed economy *adj.* characterized by diversity or variety; having different forms or types

ANSWERS: 142. vast, 143. volcano, 144. pump, 145. represent, 146. cellular, 147. fluid, 148. ozone, 149. unfortunately, 150. oxide, 151. diversified

152. collision te\_\_\_\_\_cs *n.* the study of the processes that shape the Earth's surface, including the movements of tectonic plates, earthquakes, and volcanic activity
153. a per\_\_\_\_\_ve view *n.* a confident attitude toward something; a particular style of thinking about something
154. fl\_\_\_\_\_sh economically *v.* to grow or develop vigorously or successfully
155. tw\_\_t around to the left *v.* to bend or turn something into a certain shape
156. re\_\_\_\_\_nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
157. un\_\_\_\_\_o surgery *v.* to go through something unpleasant or that involves a change
158. inc\_\_\_\_\_ial details *adj.* of little or no importance or significance; trivial or negligible
159. meet their de\_\_\_e *n.* death or the end of something
160. a fine wr\_\_\_\_\_e on a fabric *n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty
161. 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
162. di\_\_\_\_\_t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 152. tectonics, 153. perspective, 154. flourish, 155. twist, 156. represent, 157. undergo, 158. inconsequential, 159. demise, 160. wrinkle, 161. atmosphere, 162. distant

163. vanilla es\_\_\_\_\_e *n.* the basic or most important part or quality of something that makes it what it is
164. tr\_\_e a telephone call *v.* to find or discover someone or something that was lost
165. pr\_\_\_\_ve a country's heritage *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
166. human ev\_\_\_\_\_on *n.* a gradual process of transformation of living things
167. number of different sc\_\_\_\_\_ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
168. a c\_\_e to the diagnosis *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
169. detailed exp\_\_\_\_\_on *n.* the information or arguments that someone provides to make something understandable or clear
170. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
171. increase in vo\_\_\_\_\_ic activity *adj.* relating to or produced by or consisting of volcano
172. military fo\_\_\_\_\_ld *n.* a secure or reliable position in a particular situation, allowing for further progress or expansion; a firm grip or support on a surface

ANSWERS: 163. essence, 164. trace, 165. preserve, 166. evolution, 167. scenario, 168. clue, 169. explanation, 170. complexity, 171. volcanic, 172. foothold

173. universal es\_\_\_\_\_e      *n.* the basic or most important part or quality of something that makes it what it is
174. ev\_\_\_\_\_on theory      *n.* a gradual process of transformation of living things
175. fo\_\_\_\_\_st an epidemic      *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
176. 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
177. harmful co\_\_\_\_\_nd      *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
178. lo\_\_\_\_e a tumor      *v.* to specify or determine the exact position of someone or something
179. p\_\_d water      *n.* a small, shallow lake
180. an und\_\_\_\_\_ng cause of an accident      *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
181. electron mic\_\_\_\_\_pe      *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
182. co\_\_\_\_\_al combination of funds      *adj.* belonging to or used by a group rather than individuals; for common use

ANSWERS: 173. essence, 174. evolution, 175. forecast, 176. planet, 177. compound, 178. locate, 179. pond, 180. underlying, 181. microscope, 182. communal

183. re\_\_r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
184. mic\_\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
185. inc\_\_\_\_\_ial effect *adj.* of little or no importance or significance; trivial or negligible
186. 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
187. the per\_\_\_\_\_ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
188. im\_\_y the presence of alien *v.* to indicate the truth or existence of something without referring to it
189. bureau of ge\_\_\_\_\_y *n.* a science that deals with the history of the earth as recorded in rocks
190. en\_\_\_\_\_ss the enemy *v.* to surround or cover something completely; to include a large number of or different types of things entirely
191. sp\_\_k a chain reaction *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
192. fl\_\_\_\_\_sh worldwide *v.* to grow or develop vigorously or successfully
193. live an ab\_\_\_\_\_nt life *adj.* present in great quantity

ANSWERS: 183. refer, 184. microscopic, 185. inconsequential, 186. carbon, 187. perspective, 188. imply, 189. geology, 190. encompass, 191. spark, 192. flourish, 193. abundant



194. a fo\_\_\_l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
195. an ir\_\_\_c turn of events *adj.* using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect
196. ext\_\_\_\_\_sh a cigarette *v.* to cause a fire to stop burning or light to stop shining
197. co\_\_\_\_\_de that he is healthy *v.* to come to an end or close; to reach a judgment or opinion by reasoning
198. la\_\_\_\_\_pe painting *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
199. pi\_\_\_\_\_l moment *adj.* relating to or acting as a pivot or central point; crucial or essential to the success or outcome of something
200. a di\_\_\_\_\_t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
201. co\_\_\_c background radiation *adj.* relating to the universe or cosmos; vast or limitless
202. the st\_\_\_\_\_re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
203. an und\_\_\_\_\_ng motive *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly

ANSWERS: 194. fossil, 195. ironic, 196. extinguish, 197. conclude, 198. landscape, 199. pivotal, 200. distant, 201. cosmic, 202. structure, 203. underlying

204. a hat h\_\_k *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
205. a sp\_\_k of dust *n.* a very small spot, piece, or amount
206. ca\_\_e a statue *v.* to create something by cutting wood or stone; to turn sharply
207. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
208. re\_\_\_\_le her mother *v.* to look like or be similar to someone or something
209. li\_\_\_\_\_me benefits *n.* the duration of someone's life or something's existence;
210. 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
211. 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.
212. electromagnetic ra\_\_\_\_\_on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
213. volcanic v\_\_t *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

ANSWERS: 204. hook, 205. speck, 206. carve, 207. evolve, 208. resemble, 209. lifetime, 210. planet, 211. volcano, 212. radiation, 213. vent

214. marine ge\_\_\_\_\_st *n.* a scientist or specialist who studies geology
215. pi\_\_\_\_\_l role *adj.* relating to or acting as a pivot or central point; crucial or essential to the success or outcome of something
216. ca\_\_\_\_d conversation *adj.* honest, straightforward, and frank in someone's words or actions
217. a sub\_\_\_\_\_al amount of capital *adj.* fairly large in size, value, or importance
218. a bu\_\_h of trees *n.* a grouping of several similar things which are growing or fastened together
219. an alt\_\_\_\_\_ve plan *n.* one of two or more available possibilities or choice
220. a gas me\_\_r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
221. an int\_\_\_\_\_nt person *adj.* having the capacity for thought and reason, especially to a high degree
222. pro\_\_\_\_\_tic model *adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
223. vitamin and mi\_\_\_\_\_ls *n.* a solid inorganic substance occurring in nature having a definite chemical composition
224. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 214. geologist, 215. pivotal, 216. candid, 217. substantial, 218. bunch, 219. alternative, 220. meter, 221. intelligent, 222. probabilistic, 223. mineral, 224. complexity

225. mi\_\_\_\_\_es sterilizer

*n.* a tiny living thing that can only be seen with a microscope and that may cause disease

226. ext\_\_\_\_\_sh the street lamp

*v.* to cause a fire to stop burning or light to stop shining

ANSWERS: 225. microbe, 226. extinguish

## Session 3: Fill in the Blanks

1. Tech companies often employ \_\_\_\_\_ ducts and other materials in their office interiors.  
*adj.* having no protection or shield from something, such as bad weather, attack, or criticism
2. 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
3. The kidney is an \_\_\_\_\_ component of the body.  
*adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
4. The \_\_\_\_\_ in the steel beam caused the bridge to collapse.  
*n.* a physical abnormality or distortion
5. As a \_\_\_\_\_ he helped me realize my career.  
*n.* a person who helps and advises a younger or less experienced person over time, usually at work or school
6. We cannot afford to squander \_\_\_\_\_ time.  
*adj.* uncommon and extremely valuable
7. It was the \_\_\_\_\_ of a dinosaur tooth.  
*n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
8. 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

ANSWERS: 1. exposed, 2. geology, 3. organic, 4. deformity, 5. mentor, 6. precious, 7. fossil, 8. atmosphere

9. This jigsaw \_\_\_\_\_ is challenging because there are no pictures.
- n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
10. Common salt is a sodium and chlorine \_\_\_\_\_.
- n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
11. Every human is responsible for taking care of the Earth's \_\_\_\_\_.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
12. Their headquarters are in a \_\_\_\_\_ skyscraper.
- adj.* of or belonging to the present time or recent times
13. The \_\_\_\_\_ on the wall showed that the room was three meters long.
- n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
14. Doctors are gradually coming around to the idea of using \_\_\_\_\_ medicines.
- n.* one of two or more available possibilities or choice
15. There are various hypotheses concerning the \_\_\_\_\_ of life.
- n.* the first existence or beginning of something
16. This suit is made of \_\_\_\_\_ material.
- n.* a small line or fold in something, especially fabric or the skin of the face; a minor difficulty

ANSWERS: 9. puzzle, 10. compound, 11. environment, 12. modern, 13. meter, 14. alternative, 15. origin, 16. wrinkle-proof

17. The \_\_\_\_\_ activity in this area creates a unique environment for marine creatures.

*adj.* relating to hot water or steam, especially in the Earth's crust, and the thermal energy and chemical reactions that occur as a result

18. \_\_\_\_\_ elections were held in several European countries.

*adj.* belonging to or used by a group rather than individuals; for common use

19. The bankruptcy of the giant conglomerate \_\_\_\_\_ turmoil in the stock market.

*v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity

20. 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.

21. Please \_\_\_\_\_ to the instruction manual for further assistance.

*v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

22. Their team specializes in demand \_\_\_\_\_ for our products.

*n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

23. They study the \_\_\_\_\_ of the universe.

*n.* a gradual process of transformation of living things

24. The Ottoman Empire \_\_\_\_\_ for over five centuries.

*v.* to grow or develop vigorously or successfully

ANSWERS: 17. hydrothermal, 18. Communal, 19. sparked, 20. volcano, 21. refer, 22. forecasts, 23. evolution, 24. flourished

25. The country has \_\_\_\_\_ oil and natural gas resources.

*adj.* present in great quantity

26. Along the gravel roads, sizeable yellow school buses \_\_\_\_\_.

*v.* to move forward slowly, as people or animals with their bodies near the ground

27. He gave \_\_\_\_\_ to his anger by playing the guitar.

*n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

28. The \_\_\_\_\_ layer is vital for blocking some harmful sun rays.

*n.* a poisonous gas with the chemical formula O<sub>3</sub>, which has a strong smell

29. I used an optical \_\_\_\_\_ to observe the small organisms in the water sample.

*n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

30. These issues baffled \_\_\_\_\_ for many years.

*n.* a scientist or specialist who studies geology

31. Global \_\_\_\_\_ plays a critical role in the formation of mountain ranges and the movement of Earth's crustal plates.

*n.* the study of the processes that shape the Earth's surface, including the movements of tectonic plates, earthquakes, and volcanic activity

32. The corporation \_\_\_\_\_ dominated the entire tobacco business.

*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 25. abundant, 26. crawl, 27. vent, 28. ozone, 29. microscope, 30. geologists, 31. tectonics, 32. eventually



33. A \_\_\_\_\_ audience viewed the broadcast.

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

34. The blood's red coloring comes from iron \_\_\_\_\_.

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

35. 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

36. The new CEO is the \_\_\_\_\_ of the former CEO.

*n.* a person who held a position or office before the current holder

37. Weather forecasters are predicting the \_\_\_\_\_ of a heatwave.

*n.* the act or situation of coming or being brought to a place; accomplishment of an objective

38. It was \_\_\_\_\_ that the heavy rain started just as they set up for an outdoor picnic.

*adj.* using words to express something different from and often opposite to their literal or usual meaning, often for humorous or rhetorical effect

39. \_\_\_\_\_ robots that can cooperate with humans have limited motor output for safety.

*adj.* having the capacity for thought and reason, especially to a high degree

40. She decided to \_\_\_\_\_ her role as the leader of the group.

*v.* to give up power, control, or possession

ANSWERS: 33. vast, 34. oxide, 35. oxygen, 36. predecessor, 37. arrival, 38. ironic, 39. Intelligent, 40. relinquish

41. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.  
*n.* the state or quality of being complicated or intricate and difficult to understand
42. The smoke \_\_\_\_\_ out of the chimney and into the sky.  
*v.* to surge or rise in a large, swelling mass, especially of smoke or water; (noun) a large wave or swell of something, especially water or smoke
43. His father's death changed his whole \_\_\_\_\_ on life.  
*n.* a confident attitude toward something; a particular style of thinking about something
44. \_\_\_\_\_ thrive on the surface of the human skin.  
*n.* a tiny living thing that can only be seen with a microscope and that may cause disease
45. The mistake was \_\_\_\_\_ and did not significantly impact the outcome.  
*adj.* of little or no importance or significance; trivial or negligible
46. The political party \_\_\_\_\_ after much internal fighting.  
*v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
47. He tried every possible treatment, including chemotherapy and \_\_\_\_\_ therapy.  
*n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
48. The president prepared several possible \_\_\_\_\_ for an enemy attack.  
*n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work

ANSWERS: 41. complexity, 42. billowed, 43. perspective, 44. Microbes, 45. inconsequential, 46. dissolved, 47. radiation, 48. scenarios

49. The sun set over the crest of \_\_\_\_\_ hills.

*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

50. We must pass through the narrow \_\_\_\_\_ with a stream running through it.

*n.* a deep narrow valley between hills or mountains, usually with steep sides and a river running through it

51. In a \_\_\_\_\_ system, the outcome is uncertain and can vary based on chance.

*adj.* characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

52. She had lived through two world wars in her \_\_\_\_\_.

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

53. The employee had to wait outside while police \_\_\_\_\_ the building.

*v.* to look at someone or something closely, usually to examine their condition or to detect flaws

54. The \_\_\_\_\_ scarcity most severely impacted the manufacturing sector

*n.* a substance that is typically burned to generate heat or energy

55. This statue is \_\_\_\_\_ from a single tree trunk.

*v.* to create something by cutting wood or stone; to turn sharply

56. He \_\_\_\_\_ pieces of rope out of straw.

*v.* to bend or turn something into a certain shape

ANSWERS: 49. distant, 50. gorge, 51. probabilistic, 52. lifetime, 53. inspected, 54. fuel, 55. carved, 56. twisted

57. The \_\_\_\_\_ principle of every business was identical.

*adj.* significant as a cause or basis of something but not immediately apparent or stated clearly

58. The majority of synthetic vitamins are \_\_\_\_\_ from oil.

*v.* to make goods in large numbers, usually in a factory using machines

59. This factory employs a \_\_\_\_\_ manufacturing system.

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

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

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

61. The optimal solution that would \_\_\_\_\_ all these elements has yet to be proposed.

*v.* to surround or cover something completely; to include a large number of or different types of things entirely

62. The team discovered a hidden \_\_\_\_\_ in the desert.

*n.* a raised area of ground or dirt, often used for burial, construction, or as a fortification; a large, rounded pile or heap

63. The Milky Way \_\_\_\_\_ has numerous water-bearing planets.

*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

64. \_\_\_\_\_ rays are high-energy particles that originate from outside the solar system.

*adj.* relating to the universe or cosmos; vast or limitless

ANSWERS: 57. underlying, 58. manufactured, 59. cellular, 60. evolved, 61. encompass, 62. mound, 63. galaxy, 64. Cosmic

65. We elected him to \_\_\_\_\_ us at the international conference.
- v. to speak, act, or be present on behalf of another person or group; to form or constitute
66. The salespeople speak in technical terms to \_\_\_\_\_ that they are more knowledgeable than the customer.
- v. to indicate the truth or existence of something without referring to it
67. The company is looking to gain a \_\_\_\_\_ in the emerging market.
- n. a secure or reliable position in a particular situation, allowing for further progress or expansion; a firm grip or support on a surface
68. The pandemic was a \_\_\_\_\_ business opportunity for certain companies.
- adj. fairly large in size, value, or importance
69. The freshwater \_\_\_\_\_ was home to many different types of fish and was a popular spot for fishing.
- n. a small, shallow lake
70. Recent electoral shocks have shaken the political \_\_\_\_\_ in Europe.
- n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
71. The train has to \_\_\_\_\_ rigorous safety checks.
- v. to go through something unpleasant or that involves a change
72. The plane was just a \_\_\_\_\_ in the sky.
- n. a very small spot, piece, or amount

ANSWERS: 65. represent, 66. imply, 67. foothold, 68. substantial, 69. pond, 70. landscape, 71. undergo, 72. speck

73. The \_\_\_\_\_ of Japan is known for its unique culture and advanced technology.  
*n.* a large organized community of people living in a particular country or region and having a particular culture
74. The following \_\_\_\_\_ is currently being used to explain the phenomenon in question.  
*n.* the information or arguments that someone provides to make something understandable or clear
75. The sponge takes up the \_\_\_\_\_ well.  
*n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
76. The police couldn't find a \_\_\_\_\_ to her whereabouts.  
*n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
77. The organizational \_\_\_\_\_ of start-ups is often flat and straightforward.  
*n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
78. Shall we \_\_\_\_\_ a bite to eat?  
*v.* to take hold of something or someone suddenly with a hand, especially in a violent way
79. University teaches the art of understanding the \_\_\_\_\_ of the matter.  
*n.* the basic or most important part or quality of something that makes it what it is
80. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.  
*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 73. nation, 74. explanation, 75. liquid, 76. clue, 77. structure, 78. grab, 79. essence, 80. microscopic

81. The \_\_\_\_\_ photography captured the genuine emotions of the moment.

*adj.* honest, straightforward, and frank in someone's words or actions

82. The robust economy of the country is based on its \_\_\_\_\_ resources.

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

83. Whether or not extraterrestrial life exists is still \_\_\_\_\_ among scientists.

*adj.* open to discussion or argument; capable of being disputed or doubted

84. He was alert and could not \_\_\_\_\_ any critical information out of him.

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

85. One bad apple spoils the whole \_\_\_\_\_.

*n.* a grouping of several similar things which are growing or fastened together

86. The robot can accurately \_\_\_\_\_ construction material.

*v.* to specify or determine the exact position of someone or something

87. Firefighters made every effort to \_\_\_\_\_ the blaze immediately.

*v.* to cause a fire to stop burning or light to stop shining

88. The cops \_\_\_\_\_ him of being the killer.

*v.* to consider anything to be actual or probable

89. 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

ANSWERS: 81. candid, 82. mineral, 83. debatable, 84. pump, 85. bunch, 86. locate, 87. extinguish, 88. suspected, 89. discovery

90. It is important to \_\_\_\_\_ safety procedures in the workplace to prevent accidents.
- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
91. \_\_\_\_\_ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
92. 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
93. The brothers \_\_\_\_\_ each other in the hobby.
- v.* to look like or be similar to someone or something
94. The dictator's \_\_\_\_\_ was characterized by widespread human rights abuses and suppression of political opposition.
- n.* the period of time during which a monarch or government holds power; (verb) to be the king or queen
95. The building was \_\_\_\_\_ in the fire and had to be rebuilt.
- v.* to ruin or damage severely or completely; to eradicate or eliminate completely
96. The dinosaur bones were so old that they had been wholly \_\_\_\_\_ turning to stone over millions of years.
- adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

ANSWERS: 90. observe, 91. Bacteria, 92. planet, 93. resemble, 94. reign, 95. destroyed, 96. fossilized,



97. The \_\_\_\_\_ fossils provide important clues about the early evolution of life on Earth.
- n.* a type of fossilized microbial mat formed by the growth and mineralization of cyanobacteria and other microorganisms, typically found in ancient sedimentary rocks and of great significance to the study of the Earth's early history and evolution
98. The CEO's decision was \_\_\_\_\_ in the success of the company's expansion plans.
- adj.* relating to or acting as a pivot or central point; crucial or essential to the success or outcome of something
99. A ball flew in a big \_\_\_\_\_.
- n.* the shape of a portion of a circle or other curved line
100. The sudden \_\_\_\_\_ of the king was a shock to everyone and threw the kingdom into chaos.
- n.* death or the end of something
101. The \_\_\_\_\_ menu offered options for everyone, from meat-eaters to vegetarians.
- adj.* characterized by diversity or variety; having different forms or types
102. The \_\_\_\_\_ in the factory was constantly emitting dark smoke.
- n.* a vertical structure that channels smoke or gas from a fire or furnace out of a building; a hollow column or tube that facilitates air or fluid flow throughout a system
103. This study indicates \_\_\_\_\_ activity affects global warming.
- adj.* relating to or produced by or consisting of volcano

ANSWERS: 97. stromatolite, 98. pivotal, 99. arc, 100. demise, 101. diversified, 102. chimney, 103. volcanic

104. 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

105. The treatments were done but, \_\_\_\_\_ were unsuccessful.

*adv.* by bad luck; unluckily

106. 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

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

*adj.* relating to or connected with chemistry;

108. She was diagnosed with a \_\_\_\_\_ buildup in her lungs.

*n.* a substance that can flow and is not solid

109. Let's \_\_\_\_\_ the origins of some familiar foreign words.

*v.* to find or discover someone or something that was lost

110. Please hang your towel on a \_\_\_\_\_.

*n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

111. We \_\_\_\_\_ a cease-fire.

*v.* to come to an end or close; to reach a judgment or opinion by reasoning

112. They worked hard to \_\_\_\_\_ the nature of their native lands.

*v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

ANSWERS: 104. carbon, 105. unfortunately, 106. ancient, 107. chemical, 108. fluid, 109. trace, 110. hook, 111. concluded, 112. preserve

113. The juice has a \_\_\_\_\_ taste.

*adj.* odd and uncommon, sometimes in an unpleasant way

ANSWERS: 113. peculiar