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Vocabulary Builder Reference from...

Jane Zelikova: *The hidden wonders of soil* | TED Talk
https://www.ted.com/talks/jane_zelikova_the_hidden_wonders_of_soil

All Words

IMPORTANT

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Session 1: Word List

unseen

adj. not seen or noticed; not perceived

synonym: invisible, hidden, undercover

(1) **unseen** danger, (2) an **unseen** force

The consequences of the pandemic remain **unseen** as scientists continue to research the virus.

diverse

adj. including numerous categories of individuals or entities; various

synonym: manifold, various, myriad

(1) **diverse** backgrounds, (2) a person of **diverse** talents

New York is a city with a **diverse** ethnic population.

tropical

adj. originating in, located in, or characteristic of the tropics

synonym: equatorial, tropic

(1) **tropical** cyclones, (2) **tropical** islands

Tropical storm Marco is making his way along the coast of Florida.

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

combine

v. to join or merge to form a single thing or group
synonym: coalesce, cohere, blend

- (1) **combine** chemically with another substance,
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

teem

v. to be abuzz; to move in large numbers; to fall heavily
synonym: brim, swarm, overflow

- (1) **teem** with activity, (2) **teem** down

The city **teems** with traffic on holiday.

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.

critter

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

synonym: animal, creature, beast

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

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

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.

continent

n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

synonym: landmass, (adjective) chaste, (adjective) pure

- (1) the inland of a **continent**, (2) **continent** urinary diversion
Flight across the **continent** was a daring adventure in its day.

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.

adventurous

adj. willing to take risks and try new or difficult things

synonym: daring, risk-taking, bold

(1) lead an **adventurous** life, (2) **adventurous** pioneers

He has an **adventurous** spirit and is unafraid of risks.

requirement

n. something that is needed or wanted

synonym: prerequisite, provision, condition

(1) meet **requirement**, (2) school **requirement**

What is the entry **requirement** for this course?

shock

n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

synonym: amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

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**.

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.

legitimate

adj. accordant with or allowed by law; lawful

synonym : lawful, honest, fair

(1) a **legitimate** child, (2) **legitimate** question

Public political demonstrations are considered **legitimate** rights for citizens.

convincing

adj. able to make someone believe that something is true

synonym : clear, compelling, believable

(1) a **convincing** victory, (2) **convincing** biochemical explanation

I found her assertion pretty **convincing**.

whatsoever

adv. not at all; no matter what

synonym : in any way, at all, in any respect

(1) **whatsoever** it be, (2) without impact **whatsoever**

He refused to do anything **whatsoever** to help her.

ecologist

n. a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

synonym : conservationist, naturalist

(1) behavioral **ecologist**, (2) forestry **ecologist**

The forestry **ecologist** studied the interactions between the different species in the forest's ecosystem.

graduate

n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym : alumna, alum, grad

(1) **graduate** degree program, (2) honor **graduate**

Many employers hire **graduate** trainees to train as managers.

dispenser

n. a device or substance used to scatter or disperse the liquid or solid particles, often to create a homogeneous

solution or suspension

synonym : scatterer, atomizer, distributor

(1) **disperser** nozzle, (2) high-speed **disperser**

The lab technician used a **disperser** to create an emulsion for the experiment.

winnow

v. to separate or remove the undesirable or unnecessary parts of a group or collection; to narrow down or sift through something to find what is useful or valuable

synonym : sift, filter, separate

(1) **winnow** grain, (2) **winnow** out the impractical idea

I need to **winnow** through these job applications to find the most qualified candidates.

ant

n. a very small insect that lives under the ground or in a mound in highly organized groups

synonym : pismire, insect

(1) a white **ant**, (2) **ant** bite

We can find many large **ant** mounds in this area.

disperse

v. to spread out or distribute over a broad region, or to cause something to do so

synonym : dissipate, spread, scatter

(1) **disperse** false information, (2) **disperse** the protesters

Before authorities **dispersed** the protesters, they yelled slogans.

elevation

n. the height of something above sea level or above the ground; the event of something being raised upward

synonym : height, altitude, rise

(1) at an **elevation** of 1000 feet, (2) **elevation** in rank

The **elevation** of the mountain made it difficult to breathe.

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.

grad

n. (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university

synonym : graduate, alumnus, alumni

(1) high school **grad**, (2) **grad** student

He was proud to be a **grad** of the prestigious university.

nest

n. a structure in which animals lay their eggs or give birth to their young

synonym : roost, perch, burrow

(1) bird's **nest**, (2) a **nest** of thieves

The female birds build a **nest** and lay their eggs in May.

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.

bud

n. a small swelling on a plant stem or twig containing an undeveloped shoot

synonym : shoot, sprout, germ

(1) pinch off a **bud**, (2) **bud** grafting

The flower was starting to show its **bud** and would soon bloom into a beautiful blossom.

invisible

adj. impossible or nearly impossible to see

synonym : hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

harness

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of

narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym : rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

awesome

adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

synonym : miraculous, marvelous, astounding

(1) **awesome** mental faculty, (2) have an **awesome** birthday
There is a lot of **awesome** nature and food in Hawaii.

agriculture

n. the practice or science of cultivating the land or raising stock

synonym : farming, husbandry, agribusiness

(1) organic **agriculture**, (2) intensive **agriculture**
Agriculture is the foundation of our economy.

terrestrial

adj. of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air

synonym : earthy, earthborn, telluric

(1) **terrestrial** planets, (2) **terrestrial** heat

Terrestrial longitude is measured in degrees east or west of the Prime Meridian.

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.

boost

v. to improve, raise, or increase something

synonym: raise, advance, promote

(1) **boost** the economy, (2) **boost** flexibility

The new service helped **boost** net income by 10%.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym: resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

medicinal

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

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

exceedingly

adv. to an extreme degree

synonym: enormously, especially, exceptionally

(1) **exceedingly** common, (2) an **exceedingly** difficult book

Fear is **exceedingly** infectious, and children catch it from their elders.

multitude

n. a large number of things or people

synonym: mass, assembly, hive

(1) great **multitude**, (2) from a **multitude** of sources

This company is faced with a **multitude** of problems.

decompose

v. to break down or cause to break down over time into simpler substances or elements

synonym: break down, rot, spoil

(1) **decompose** matter, (2) **decompose** into simpler molecules

After the earthquake, many of the buildings in the city were left in ruins and began to **decompose**.

accumulate

v. to collect or acquire a large number of things over a long period of time

synonym: amass, stash, earn

(1) **accumulate** cash value, (2) **accumulate** evidence

He has **accumulated** his wealth through real estate investments.

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.

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.

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**.

collaboration

n. the act or situation of working together to create or produce something

synonym: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

transformation

n. a complete change in form, nature, or appearance of someone or something

synonym: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

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.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

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**.

sunshine

n. the direct light and heat that comes from the sun

synonym: sunlight, daylight, rays

(1) warm **sunshine**, (2) morning **sunshine**

The **sunshine** was so bright that I had to wear sunglasses to

protect my eyes.

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.

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**.

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.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym : atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

clump

n. a small group of bushes, trees, flowers, people, etc.

synonym : cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

aggregate

n. a collection or sum of different things often used to describe a total or combination of items

synonym: total, sum, whole

(1) data **aggregate**, (2) an **aggregate** of people

The **aggregate** amount of money raised for the charity was over a million dollars.

sticky

adj. made of or covered with an adhesive substance; hot or warm and humid

synonym: adhesive, gluey, clingy

(1) **sticky** weather, (2) **sticky** situation

A peculiar **sticky** material coated the foliage.

physically

adv. in a way related to a person's body or appearance rather than their mind

(1) **physically** and mentally, (2) stay **physically** fit

Having a **physically** healthy physique is essential for a great life.

decomposition

n. the process of breaking down organic matter into simpler substances through natural processes such as decay

synonym: decay, putrefaction, corruption

(1) **decomposition** process, (2) chemical **decomposition**

The **decomposition** of organic matter releases nutrients back into the soil.

sequester

v. to take temporary possession of someone's property until a debt is paid.

synonym: isolate, set apart, segregate

(1) **sequester** ten percent of the annual carbon emissions,

(2) **sequester** myself from the world

He approved their requests to **sequester** the jury.

necromass

n. dead organic matter, particularly the remains of plants or animals that accumulate in soil and play an important role in nutrient cycling

synonym : dead matter, decay matter, carrion

(1) **necromass** decay, (2) **necromass** production

The **necromass** of decomposing organic matter attracted scavengers and insects.

millennium

n. a span of 1000 years, or the 1000th anniversary (plural: millennia)

(1) past **millennium**, (2) **millennium** bottle of wine

Our world is in the third **millennium**.

undisturbed

adj. not interrupted or interfered with; left alone; peaceful

synonym : calm, peaceful, uninterrupted

(1) **undisturbed** sleep, (2) **undisturbed** nature

The wildlife reserve is a vital **undisturbed** habitat for endangered species.

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.

grassland

n. a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock

synonym : meadow, plain, savanna

(1) endangered **grassland**, (2) vast **grassland**

Meadows and pastures are examples of smaller-scale **grasslands** in many parts of the world.

plow

n. a farming implement used for breaking up and turning over the soil, especially before planting; (verb) to turn over and break up the soil in preparation for planting crops

synonym : plough, cultivator, hoe

(1) **plow** equipment, (2) deeply **plow** the soil

The farmer tied the yoke oxen to the **plow**.

technological

adj. based on scientific and industrial progress

synonym : specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

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.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym : coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

alter

v. to cause to change or make different

synonym : change, vary, adjust

(1) **alter** a decision, (2) **alter** data in a file

The design of the webpage has **altered** slightly.

trajectory

n. the curved path followed by an object moving through space

synonym : course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

expose

v. to show something by uncovering it; to make something accessible to some action or influence

synonym : disclose, reveal, uncover

(1) **expose** a crime, (2) **expose** a person to risks
That newspaper **exposed** a political scandal in a big way.

alarming

adj. causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
synonym: forbidding, concerning, disturbing

(1) **alarming** news, (2) **alarming** statistics
The sudden rise in crime rates in our neighborhood is quite **alarming**.

fertility

n. the state or quality of being able to produce babies, young animals, fruit, or new plants
synonym: richness, pregnancy, productivity

(1) soil **fertility**, (2) **fertility** above replacement
The sperm count is used as an indicator of male **fertility**.

disappear

v. to cease to exist or be visible
synonym: fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week
They watched the train **disappear** into the distance.

resound

v. to make a loud, deep sound that echoes
synonym: echo, reverberate, ring

(1) **resound** with his fame, (2) **resound** in an enclosure
The sound of the drums **resounded** through the concert hall.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone
synonym: acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value
We would **appreciate** an early reply.

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.

rebuild

v. to build again or anew

synonym : reconstruct, renovate, restore

(1) **rebuild** a company, (2) **rebuild** communities

They are planning to **rebuild** the house after the fire.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym : reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

reliance

n. the state of depending on or needing something or someone

synonym : dependence, support, confidence

(1) **reliance** on social media, (2) self- **reliance** and solidarity

He acted in **reliance** on her naked promises.

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.

wee

adj. very small or tiny; referring to a short amount of time

synonym : tiny, small, diminutive

(1) **wee** child, (2) a **wee** bit

The toddler was excited to wear his new **wee-sized** shoes.

beastie

n. a small or insignificant animal often used to describe insects, rodents, or other vermin

synonym: critter, creature, animal

(1) cute little **beastie**, (2) monster **beastie**

Scientists discovered a new species of **beastie** in the rainforest.

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.

innovation

n. the creation of a new device or process resulting from study and experimentation

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

molecular

adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

synonym: microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

Molecular weight is the sum of all the atoms.

computation

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

synonym: calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

sneak

v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do

something secretly or stealthily

synonym: creep, tiptoe, smuggle

(1) **sneak** a cigarette, (2) **sneak** out of danger

The children tried to **sneak** out and eat the candy.

peek

n. a quick or furtive look; (verb) to take a quick and secret look at something

synonym: glimpse, look, glance

(1) sneak **peek**, (2) **peek** at others' misfortune

She took a quick **peek** inside the box before closing it again.

teaspoon

n. a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving

(1) **teaspoon** measurement, (2) lick a **teaspoon**

You only need a **teaspoon** of salt to enhance the soup's flavor.

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.

fungus

n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

synonym: mold, mildew, yeast

(1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

protist

n. a diverse group of single-celled or simple multicellular organisms, including algae, amoebas, and slime molds, that do not belong to the plant, animal, or fungus

synonym : organism, microbe, single-celled creature

(1) eukaryotic **protist**, (2) **protist** organism

Some **protists**, such as algae, are autotrophic and produce their food through photosynthesis, while others, such as heterotrophic protists, obtain nutrients from other sources.

archaea

n. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

synonym : microbe, microorganism

(1) **archaea** microorganism, (2) thermophile **archaea**

The study of **archaea** is important for understanding the origins of life on Earth

mover

n. a person or company that specializes in moving goods or possessions from one location to another; a professional moving service or an individual who performs this task for friends, family members, or customers

synonym : removalist, proposer

(1) market **mover**, (2) the **movers** and shakers

The professional **mover** helped us pack and transport our furniture and belongings to our new home.

shaker

n. a container or device used to mix or shake substances, typically used in cooking or for preparing drinks; a member of a religious sect that grew out of a Quaker revival in the United States in the 19th century

synonym : vibrator, agitator, mixer

(1) world- **shaker**, (2) protein **shaker**

The bartender quickly made a **shaker** of cocktails for the group of friends.

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.

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.

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.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

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.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym : robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

consistent

adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

synonym: coherent, constant, compatible

(1) do on a **consistent** basis, (2) get **consistent** results

You are not **consistent** in your behavior.

fickle

adj. liable to change frequently or unexpectedly, often without reason; capricious or unsteady

synonym: capricious, unpredictable, inconsistent

(1) **fickle** opinion, (2) **fickle** mood

The weather can be quite **fickle** in this region, changing rapidly and unpredictably.

buffer

n. a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage

synonym: cushion, shield, insulation

(1) a **buffer** between the quarreling parents, (2) use a **buffer** to reduce noise

Using a password manager can act as a **buffer** against hackers who try to steal your personal information.

uncertain

adj. not being sure of something; not being able to choose

synonym: doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym: motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

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.

diversity

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

synonym: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish

synonym: element, component

(1) secret **ingredients**, (2) compound the **ingredients**

Greed is the primary **ingredient** in the making of criminals.

recipe

n. a set of instructions for preparing a dish, including the ingredients and the method of cooking

synonym: instructions, formula, method

(1) **recipe** book, (2) **recipe** collection

The **recipe** for the cake is passed down from generation to generation in her family.

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.

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.

rancher

n. a person who owns, manages, or works on a ranch, especially one that is used for raising or grazing livestock

synonym: cowboy, farmer, herder

(1) **rancher's** wife, (2) traditional **rancher**

The local grocery store carried meat sourced from the **rancher's** farm.

solver

n. a thinker who finds an answer to a problem or a difficult situation; a piece of software or the algorithm that solves a mathematical problem

synonym: thinker

(1) puzzle- **solver**, (2) linear **solver**

The flow **solver** is validated against the experiment.

operate

v. to work in a particular way; to supervise something

synonym: work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

sustainable

adj. able to continue or be continued for a long time

synonym: continuable, endurable, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

withstand

v. to resist the effect or impact of something

synonym: endure, bear, resist

(1) **withstand** pressure, (2) **withstand** temptation

The new phone is waterproof and can **withstand** being dropped in water.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

crop

n. a plant that is cultivated in large amounts, particularly for food

synonym: output, produce, product

(1) **crop** field, (2) **crop** herbicide

Sow early for an early **crop**.

innovate

v. to introduce new methods, ideas, or products

synonym: bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym: advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

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.

incentivize

- v. to make someone want to do in a particular way by offering them a reward

synonym: encourage, motivate

(1) **incentivize** carpooling, (2) **incentivize** the right behavior
Governments **incentivize** their citizens to buy eco-friendly products through subsidies.

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**.

unlock

- v. to open something, such as a door, window, etc., usually using a key

synonym: open, solve, unravel

(1) **unlock** a door with a key, (2) **unlock** value

The customs officer required the traveler to **unlock** his suitcase.

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. a cl__p of trees | <i>n.</i> a small group of bushes, trees, flowers, people, etc. |
| 2. mil_____um bottle of wine | <i>n.</i> a span of 1000 years, or the 1000th anniversary (plural: millennia) |
| 3. high school g__d | <i>n.</i> (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university |
| 4. t__m down | <i>v.</i> to be abuzz; to move in large numbers; to fall heavily |
| 5. a tra_____ry missile | <i>n.</i> the curved path followed by an object moving through space |
| 6. pr_____t when she will arrive | <i>v.</i> to state beforehand that something will happen in the future, mainly based on knowledge or experience |
| 7. adv_____us pioneers | <i>adj.</i> willing to take risks and try new or difficult things |
| 8. manually op_____e a machine | <i>v.</i> to work in a particular way; to supervise something |
| 9. marine bi__e | <i>n.</i> 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 |
| 10. al__r a decision | <i>v.</i> to cause to change or make different |
| 11. wha_____er it be | <i>adv.</i> not at all; no matter what |

ANSWERS: 1. clump, 2. millennium, 3. grad, 4. teem, 5. trajectory, 6. predict, 7. adventurous, 8. operate, 9. biome, 10. alter, 11. whatsoever

12. fi___e opinion *adj.* liable to change frequently or unexpectedly, often without reason; capricious or unsteady
13. ne_____ss production *n.* dead organic matter, particularly the remains of plants or animals that accumulate in soil and play an important role in nutrient cycling
14. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
15. an un___n force *adj.* not seen or noticed; not perceived
16. se_____er ten percent of the annual carbon emissions *v.* to take temporary possession of someone's property until a debt is paid.
17. app_____te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
18. forestry ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior
19. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
20. 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

ANSWERS: 12. fickle, 13. necromass, 14. particle, 15. unseen, 16. sequester, 17. appreciate, 18. ecologist, 19. ecosystem, 20. bacteria

21. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
22. put a ha_____s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
23. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
24. 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
25. 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
26. 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
27. parched s__l *n.* the top layer of Earth in which plants grow
28. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
29. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 21. immune, 22. harness, 23. biology, 24. atmosphere, 25. organic, 26. breakthrough, 27. soil, 28. humming, 29. computation

30. mi_____te a natural disaster *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
31. get con_____nt results *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
32. in_____le stars *adj.* impossible or nearly impossible to see
33. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
34. p__w equipment *n.* a farming implement used for breaking up and turning over the soil, especially before planting; (verb) to turn over and break up the soil in preparation for planting crops
35. tec_____cal advancement *adj.* based on scientific and industrial progress
36. de_____se into simpler molecules *v.* to break down or cause to break down over time into simpler substances or elements
37. self-re_____ce and solidarity *n.* the state of depending on or needing something or someone
38. cute little be_____e *n.* a small or insignificant animal often used to describe insects, rodents, or other vermin
39. al__r data in a file *v.* to cause to change or make different
40. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
41. un_____n danger *adj.* not seen or noticed; not perceived

ANSWERS: 30. mitigate, 31. consistent, 32. invisible, 33. operate, 34. plow, 35. technological, 36. decompose, 37. reliance, 38. beastie, 39. alter, 40. biology, 41. unseen

42. un___k a door with a key *v.* to open something, such as a door, window, etc., usually using a key
43. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
44. cute cr_____r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
45. 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
46. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
47. fu___s infection *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
48. v__t majority *adj.* enormous in size, number, amount, or quantity
49. re_____nt population *adj.* able to withstand or recover quickly from difficult conditions
50. al_____ng statistics *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
51. lead an adv_____us life *adj.* willing to take risks and try new or difficult things

ANSWERS: 42. unlock, 43. eventually, 44. critter, 45. dirt, 46. immune, 47. fungus, 48. vast, 49. resilient, 50. alarming, 51. adventurous

52. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
53. without impact wha_____er *adv.* not at all; no matter what
54. re_____k a marketing plan *v.* to consider again a plan, idea, etc., especially to change it
55. behavioral ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior
56. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
57. a con_____ng victory *adj.* able to make someone believe that something is true
58. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
59. sn__k out of danger *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
60. acc_____te cash value *v.* to collect or acquire a large number of things over a long period of time
61. stay phy_____ly fit *adv.* in a way related to a person's body or appearance rather than their mind
62. ex___e a person to risks *v.* to show something by uncovering it; to make something accessible to some action or influence

ANSWERS: 52. progression, 53. whatsoever, 54. rethink, 55. ecologist, 56. rainforest, 57. convincing, 58. nutrient, 59. sneak, 60. accumulate, 61. physically, 62. expose

63. a white a_t *n.* a very small insect that lives under the ground or in a mound in highly organized groups
64. symbiotic fu___s *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
65. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
66. s__ls retentive of moisture *n.* the top layer of Earth in which plants grow
67. an ag_____te of people *n.* a collection or sum of different things often used to describe a total or combination of items
68. co_____e augmented reality *v.* to join or merge to form a single thing or group
69. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
70. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
71. sn__k a cigarette *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
72. tr_____rm heat into power *v.* to change in outward structure or looks;
73. puzzle-so___r *n.* a thinker who finds an answer to a problem or a difficult situation; a piece of software or the algorithm that solves a mathematical problem

ANSWERS: 63. ant, 64. fungus, 65. crop, 66. soil, 67. aggregate, 68. combine, 69. eventually, 70. microbe, 71. sneak, 72. transform, 73. solver

74. al_____ng news *adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
75. 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
76. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
77. wi___w grain *v.* to separate or remove the undesirable or unnecessary parts of a group or collection; to narrow down or sift through something to find what is useful or valuable
78. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
79. oxygenic pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
80. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
81. 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
82. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 74. alarming, 75. discovery, 76. progression, 77. winnow, 78. nutrient, 79. photosynthesis, 80. convert, 81. pump, 82. innovation

83. w_e child *adj.* very small or tiny; referring to a short amount of time
84. in____te a new method *v.* to introduce new methods, ideas, or products
85. st___y weather *adj.* made of or covered with an adhesive substance; hot or warm and humid
86. 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
87. sh__k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
88. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
89. und_____ed nature *adj.* not interrupted or interfered with; left alone; peaceful
90. di_____ar after a week *v.* to cease to exist or be visible
91. honor gr_____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
92. 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
93. v__t desert *adj.* enormous in size, number, amount, or quantity

ANSWERS: 83. wee, 84. innovate, 85. sticky, 86. carbon, 87. shock, 88. revolution, 89. undisturbed, 90. disappear, 91. graduate, 92. organic, 93. vast

94. tr____al islands *adj.* originating in, located in, or characteristic of the tropics
95. bo__t flexibility *v.* to improve, raise, or increase something
96. leg_____te question *adj.* accordant with or allowed by law; lawful
97. un___k value *v.* to open something, such as a door, window, etc., usually using a key
98. ex___e a crime *v.* to show something by uncovering it; to make something accessible to some action or influence
99. deeply p__w the soil *n.* a farming implement used for breaking up and turning over the soil, especially before planting; (verb) to turn over and break up the soil in preparation for planting crops
100. und_____ed sleep *adj.* not interrupted or interfered with; left alone; peaceful
101. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
102. tec_____cal policy *adj.* based on scientific and industrial progress
103. re____d a company *v.* to build again or anew
104. t__m with activity *v.* to be abuzz; to move in large numbers; to fall heavily
105. g__d student *n.* (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university

ANSWERS: 94. tropical, 95. boost, 96. legitimate, 97. unlock, 98. expose, 99. plow, 100. undisturbed, 101. ecosystem, 102. technological, 103. rebuild, 104. teem, 105. grad

106. ter_____al heat *adj.* of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air
107. career tra_____ry *n.* the curved path followed by an object moving through space
108. 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
109. an air-cooled en____e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
110. 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
111. a ch_____al compound *adj.* relating to or connected with chemistry;
112. de_____se matter *v.* to break down or cause to break down over time into simpler substances or elements
113. morning su_____ne *n.* the direct light and heat that comes from the sun
114. the cy__e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
115. tr_____al cyclones *adj.* originating in, located in, or characteristic of the tropics

ANSWERS: 106. terrestrial, 107. trajectory, 108. bacteria, 109. engine, 110. atmosphere, 111. chemical, 112. decompose, 113. sunshine, 114. cycle, 115. tropical

116. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
117. market mo__r *n.* a person or company that specializes in moving goods or possessions from one location to another; a professional moving service or an individual who performs this task for friends, family members, or customers
118. 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
119. a n__t of thieves *n.* a structure in which animals lay their eggs or give birth to their young
120. the di_____ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
121. cast a tra_____ion spell *n.* a complete change in form, nature, or appearance of someone or something
122. fi___e mood *adj.* liable to change frequently or unexpectedly, often without reason; capricious or unsteady
123. a w_e bit *adj.* very small or tiny; referring to a short amount of time
124. meet req_____nt *n.* something that is needed or wanted
125. great mu_____de *n.* a large number of things or people

ANSWERS: 116. rainforest, 117. mover, 118. carbon, 119. nest, 120. diversity, 121. transformation, 122. fickle, 123. wee, 124. requirement, 125. multitude

126. acc_____te evidence *v.* to collect or acquire a large number of things over a long period of time
127. endangered gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
128. bird's n__t *n.* a structure in which animals lay their eggs or give birth to their young
129. co_____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount
130. inc_____ze carpooling *v.* to make someone want to do in a particular way by offering them a reward
131. di_____er nozzle *n.* a device or substance used to scatter or disperse the liquid or solid particles, often to create a homogeneous solution or suspension
132. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
133. vast gr_____nd *n.* a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
134. el_____on in rank *n.* the height of something above sea level or above the ground; the event of something being raised upward
135. p__k at others' misfortune *n.* a quick or furtive look; (verb) to take a quick and secret look at something
136. wi_____nd pressure *v.* to resist the effect or impact of something
137. mi_____te risk *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something

ANSWERS: 126. accumulate, 127. grassland, 128. nest, 129. consume, 130. incentivize, 131. disperser, 132. microscope, 133. grassland, 134. elevation, 135. peek, 136. withstand, 137. mitigate

138. linear so___r *n.* a thinker who finds an answer to a problem or a difficult situation; a piece of software or the algorithm that solves a mathematical problem
139. co_____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
140. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
141. ar_____a microorganism *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
142. process of pho_____sis *n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
143. ter_____al planets *adj.* of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air
144. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
145. death from sh__k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
146. the mo__rs and shakers *n.* a person or company that specializes in moving goods or possessions from one location to another; a professional moving service or an individual who performs this task for friends, family members, or customers

ANSWERS: 138. solver, 139. communal, 140. predict, 141. archaea, 142. photosynthesis, 143. terrestrial, 144. crop, 145. shock, 146. mover

147. di____se the protesters *v.* to spread out or distribute over a broad region, or to cause something to do so
148. monster be____e *n.* a small or insignificant animal often used to describe insects, rodents, or other vermin
149. 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
150. the inland of a co____nt *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
151. 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
152. bo__t the economy *v.* to improve, raise, or increase something
153. use a bu____r to reduce noise *n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
154. a cold cl____e *n.* the weather in a particular location averaged over some long period
155. te____on measurement *n.* a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
156. data ag____te *n.* a collection or sum of different things often used to describe a total or combination of items

ANSWERS: 147. disperse, 148. beastie, 149. underground, 150. continent, 151. planet, 152. boost, 153. buffer, 154. climate, 155. teaspoon, 156. aggregate

157. traditional me_____al *adj.* of or relating to the treatment or cure of disease
158. re_____ce on social media *n.* the state of depending on or needing something or someone
159. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
160. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
161. ha_____s a horse to a carriage *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
162. wild cr_____r *n.* a small or unimportant creature or animal, often used in a familiar or affectionate way
163. tr_____rm an education system *v.* to change in outward structure or looks;
164. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
165. organic agr_____re *n.* the practice or science of cultivating the land or raising stock
166. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
167. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element

ANSWERS: 157. medicinal, 158. reliance, 159. microscope, 160. oxide, 161. harness, 162. critter, 163. transform, 164. ingredient, 165. agriculture, 166. climate, 167. oxide

168. 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
169. have an aw_____e birthday *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
170. the tra_____ion of a tadpole into a frog *n.* a complete change in form, nature, or appearance of someone or something
171. co_____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
172. exc_____ly common *adv.* to an extreme degree
173. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
174. app_____te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
175. numerous un_____in factors *adj.* not being sure of something; not being able to choose
176. wi___w out the impractical idea *v.* to separate or remove the undesirable or unnecessary parts of a group or collection; to narrow down or sift through something to find what is useful or valuable
177. dec_____ion process *n.* the process of breaking down organic matter into simpler substances through natural processes such as decay

ANSWERS: 168. planet, 169. awesome, 170. transformation, 171. communal, 172. exceedingly, 173. molecular, 174. appreciate, 175. uncertain, 176. winnow, 177. decomposition

178. world-sh___r *n.* a container or device used to mix or shake substances, typically used in cooking or for preparing drinks; a member of a religious sect that grew out of a Quaker revival in the United States in the 19th century
179. pr_____t organism *n.* a diverse group of single-celled or simple multicellular organisms, including algae, amoebas, and slime molds, that do not belong to the plant, animal, or fungus
180. toxic ch_____als *adj.* relating to or connected with chemistry;
181. eukaryotic pr_____t *n.* a diverse group of single-celled or simple multicellular organisms, including algae, amoebas, and slime molds, that do not belong to the plant, animal, or fungus
182. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation
183. warm su_____ne *n.* the direct light and heat that comes from the sun
184. take an un_____in attitude *adj.* not being sure of something; not being able to choose
185. ra_____r's wife *n.* a person who owns, manages, or works on a ranch, especially one that is used for raising or grazing livestock
186. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected

ANSWERS: 178. shaker, 179. protist, 180. chemical, 181. protist, 182. innovation, 183. sunshine, 184. uncertain, 185. rancher, 186. fundamental

187. cl__p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
188. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
189. co_____nt urinary diversion *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
190. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
191. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
192. at an el_____on of 1000 feet *n.* the height of something above sea level or above the ground; the event of something being raised upward
193. re_____d communities *v.* to build again or anew
194. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
195. re___e book *n.* a set of instructions for preparing a dish, including the ingredients and the method of cooking
196. school req_____nt *n.* something that is needed or wanted
197. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 187. clump, 188. engine, 189. continent, 190. diverse, 191. particle, 192. elevation, 193. rebuild, 194. microbe, 195. recipe, 196. requirement, 197. complexity

198. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
199. lingual di_____ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
200. di_____se false information *v.* to spread out or distribute over a broad region, or to cause something to do so
201. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
202. b_d grafting *n.* a small swelling on a plant stem or twig containing an undeveloped shoot
203. 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
204. col_____ion platform *n.* the act or situation of working together to create or produce something
205. an in_____le asset *adj.* impossible or nearly impossible to see
206. traditional ra_____r *n.* a person who owns, manages, or works on a ranch, especially one that is used for raising or grazing livestock
207. st___y situation *adj.* made of or covered with an adhesive substance; hot or warm and humid
208. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

ANSWERS: 198. computation, 199. diversity, 200. disperse, 201. molecule, 202. bud, 203. pump, 204. collaboration, 205. invisible, 206. rancher, 207. sticky, 208. molecular

209. an exc_____ly difficult book *adv.* to an extreme degree
210. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
211. co_____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
212. re_____d in an enclosure *v.* to make a loud, deep sound that echoes
213. do on a con_____nt basis *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
214. 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
215. 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
216. a hard and re_____nt steel *adj.* able to withstand or recover quickly from difficult conditions
217. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
218. thermophile ar_____a *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

ANSWERS: 209. exceedingly, 210. consume, 211. convert, 212. resound, 213. consistent, 214. discovery, 215. breakthrough, 216. resilient, 217. ingredient, 218. archaea

219. chemical dec_____ion *n.* the process of breaking down organic matter into simpler substances through natural processes such as decay
220. ne_____ss decay *n.* dead organic matter, particularly the remains of plants or animals that accumulate in soil and play an important role in nutrient cycling
221. soil fe_____ty *n.* the state or quality of being able to produce babies, young animals, fruit, or new plants
222. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
223. from a mu_____de of sources *n.* a large number of things or people
224. 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
225. pinch off a b_d *n.* a small swelling on a plant stem or twig containing an undeveloped shoot
226. aw_____e mental faculty *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
227. fe_____ty above replacement *n.* the state or quality of being able to produce babies, young animals, fruit, or new plants
228. high-speed di_____er *n.* a device or substance used to scatter or disperse the liquid or solid particles, often to create a homogeneous solution or suspension

ANSWERS: 219. decomposition, 220. necromass, 221. fertility, 222. cycle, 223. multitude, 224. dirt, 225. bud, 226. awesome, 227. fertility, 228. disperser

229. sneak p__k *n.* a quick or furtive look; (verb) to take a quick and secret look at something
230. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
231. inc_____ze the right behavior *v.* to make someone want to do in a particular way by offering them a reward
232. lick a te_____on *n.* a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
233. a bu____r between the quarreling parents *n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
234. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
235. 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
236. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
237. intensive agr_____re *n.* the practice or science of cultivating the land or raising stock
238. col_____ion between companies *n.* the act or situation of working together to create or produce something
239. 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

ANSWERS: 229. peek, 230. molecule, 231. incentivize, 232. teaspoon, 233. buffer, 234. complexity, 235. underground, 236. diverse, 237. agriculture, 238. collaboration, 239. biome

240. sus_____le alternative fuel	<i>adj.</i> able to continue or be continued for a long time
241. a leg_____te child	<i>adj.</i> accordant with or allowed by law; lawful
242. gr_____te degree program	<i>n.</i> a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
243. a_t bite	<i>n.</i> a very small insect that lives under the ground or in a mound in highly organized groups
244. co_____e chemically with another substance	<i>v.</i> to join or merge to form a single thing or group
245. beginning of the industrial rev_____on	<i>n.</i> a large-scale attempt to overthrow the government of a country, often using violence or war;
246. in_____te the quality of his life	<i>v.</i> to introduce new methods, ideas, or products
247. se_____er myself from the world	<i>v.</i> to take temporary possession of someone's property until a debt is paid.
248. hu_____g sound	<i>adj.</i> producing a continuous, low, vibrating sound like that of the bee
249. past mil_____um	<i>n.</i> a span of 1000 years, or the 1000th anniversary (plural: millennia)
250. con_____ng biochemical explanation	<i>adj.</i> able to make someone believe that something is true
251. wi_____nd temptation	<i>v.</i> to resist the effect or impact of something

ANSWERS: 240. sustainable, 241. legitimate, 242. graduate, 243. ant, 244. combine, 245. revolution, 246. innovate, 247. sequester, 248. humming, 249. millennium, 250. convincing, 251. withstand

252. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
253. phy_____ly and mentally *adv.* in a way related to a person's body or appearance rather than their mind
254. principles of sus_____le development *adj.* able to continue or be continued for a long time
255. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
256. re_____k the role of the manager *v.* to consider again a plan, idea, etc., especially to change it
257. re_____d with his fame *v.* to make a loud, deep sound that echoes
258. re___e collection *n.* a set of instructions for preparing a dish, including the ingredients and the method of cooking
259. 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
260. protein sh___r *n.* a container or device used to mix or shake substances, typically used in cooking or for preparing drinks; a member of a religious sect that grew out of a Quaker revival in the United States in the 19th century
261. 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

ANSWERS: 252. medicinal, 253. physically, 254. sustainable, 255. fundamental, 256. rethink, 257. resound, 258. recipe, 259. stick, 260. shaker, 261. stick

262. di_____ar without a trace

v. to cease to exist or be visible

ANSWERS: 262. disappear

Session 3: Fill in the Blanks

1. 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
2. I found her assertion pretty _____.
adj. able to make someone believe that something is true
3. Meadows and pastures are examples of smaller-scale _____ in many parts of the world.
n. a large area of land covered mainly by grass, with few or no trees, and typically used for grazing livestock
4. You are not _____ in your behavior.
adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.
5. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
6. A peculiar _____ material coated the foliage.
adj. made of or covered with an adhesive substance; hot or warm and humid
7. 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

ANSWERS: 1. breakthroughs, 2. convincing, 3. grasslands, 4. consistent, 5. oxide, 6. sticky, 7. pump

8. The weather can be quite _____ in this region, changing rapidly and unpredictably.
adj. liable to change frequently or unexpectedly, often without reason; capricious or unsteady
9. Hydrogen and oxygen _____ to form water.
v. to join or merge to form a single thing or group
10. Our world is in the third _____.
n. a span of 1000 years, or the 1000th anniversary (plural: millennia)
11. _____ is the foundation of our economy.
n. the practice or science of cultivating the land or raising stock
12. Scientists discovered a new species of _____ in the rainforest.
n. a small or insignificant animal often used to describe insects, rodents, or other vermin
13. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
14. The new service helped _____ net income by 10%.
v. to improve, raise, or increase something
15. During their camping trip, the kids were excited to go _____ hunting in the woods.
n. a small or unimportant creature or animal, often used in a familiar or affectionate way

ANSWERS: 8. fickle, 9. combine, 10. millennium, 11. Agriculture, 12. beastie, 13. medicinal, 14. boost, 15. critter

16. The farmer tied the yoke oxen to the _____.
- n.* a farming implement used for breaking up and turning over the soil, especially before planting; (verb) to turn over and break up the soil in preparation for planting crops
17. 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
18. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation
19. The phenomenon is _____ at optical wavelengths.
- adj.* impossible or nearly impossible to see
20. Fear is _____ infectious, and children catch it from their elders.
- adv.* to an extreme degree
21. The government should do more to support environmentally _____ agriculture.
- adj.* able to continue or be continued for a long time
22. The sudden rise in crime rates in our neighborhood is quite _____.
- adj.* causing concern or apprehension; causing a feeling of danger, harm, or emergency; unsettling or disturbing
23. The _____ of decomposing organic matter attracted scavengers and insects.
- n.* dead organic matter, particularly the remains of plants or animals that accumulate in soil and play an important role in nutrient cycling

ANSWERS: 16. plow, 17. molecule, 18. innovation, 19. invisible, 20. exceedingly, 21. sustainable, 22. alarming, 23. necromass

24. It's notoriously challenging to _____ birth rates.

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

25. He has _____ his wealth through real estate investments.

- v. to collect or acquire a large number of things over a long period of time

26. The customs officer required the traveler to _____ his suitcase.

- v. to open something, such as a door, window, etc., usually using a key

27. That newspaper _____ a political scandal in a big way.

- v. to show something by uncovering it; to make something accessible to some action or influence

28. She was _____ about her friend's intentions.

- adj. not being sure of something; not being able to choose

29. We can calculate the position of the _____ statistically.

- n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

30. We would _____ an early reply.

- v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

31. Public political demonstrations are considered _____ rights for citizens.

- adj. accordant with or allowed by law; lawful

32. There is a lot of _____ nature and food in Hawaii.

- adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

ANSWERS: 24. predict, 25. accumulated, 26. unlock, 27. exposed, 28. uncertain, 29. particles, 30. appreciate, 31. legitimate, 32. awesome

33. The destruction of the _____ is a ticking time bomb for the Earth.
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
34. The flow _____ is validated against the experiment.
n. a thinker who finds an answer to a problem or a difficult situation; a piece of software or the algorithm that solves a mathematical problem
35. She is a _____ person and has always bounced back from setbacks.
adj. able to withstand or recover quickly from difficult conditions
36. He approved their requests to _____ the jury.
v. to take temporary possession of someone's property until a debt is paid.
37. I need to _____ through these job applications to find the most qualified candidates.
v. to separate or remove the undesirable or unnecessary parts of a group or collection; to narrow down or sift through something to find what is useful or valuable
38. You only need a _____ of salt to enhance the soup's flavor.
n. a small spoon used to stir or measure out small amounts of some ingredients, typically sugar, salt, or spices, in cooking or serving
39. _____ longitude is measured in degrees east or west of the Prime Meridian.
adj. of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air
40. 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

ANSWERS: 33. rainforest, 34. solver, 35. resilient, 36. sequester, 37. winnow, 38. teaspoon, 39. Terrestrial, 40. underground

41. _____ elections were held in several European countries.
adj. belonging to or used by a group rather than individuals; for common use
42. The local grocery store carried meat sourced from the _____ farm.
n. a person who owns, manages, or works on a ranch, especially one that is used for raising or grazing livestock
43. The _____ amount of money raised for the charity was over a million dollars.
n. a collection or sum of different things often used to describe a total or combination of items
44. The study of _____ is important for understanding the origins of life on Earth
n. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
45. 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
46. 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
47. _____ 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
48. Sow early for an early _____.
n. a plant that is cultivated in large amounts, particularly for food

ANSWERS: 41. Communal, 42. rancher's, 43. aggregate, 44. archaea, 45. carbon, 46. planet, 47. Microbes, 48. crop

49. 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
50. The _____ of organic matter releases nutrients back into the soil.
- n.* the process of breaking down organic matter into simpler substances through natural processes such as decay
51. We have to _____ our company's product lineup for further growth.
- v.* to consider again a plan, idea, etc., especially to change it
52. 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
53. 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
54. The partnership program requires a mutual _____ between both agencies.
- n.* the act or situation of working together to create or produce something
55. Some _____ such as algae, are autotrophic and produce their food through photosynthesis, while others, such as heterotrophic protists, obtain nutrients from other sources.
- n.* a diverse group of single-celled or simple multicellular organisms, including algae, amoebas, and slime molds, that do not belong to the plant, animal, or fungus

ANSWERS: 49. atmosphere, 50. decomposition, 51. rethink, 52. organic, 53. microscope, 54. collaboration, 55. protists,

56. I want to _____ my sadness into strength.

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

57. _____ storm Marco is making his way along the coast of Florida.

adj. originating in, located in, or characteristic of the tropics

58. They watched the train _____ into the distance.

v. to cease to exist or be visible

59. The sperm count is used as an indicator of male _____.

n. the state or quality of being able to produce babies, young animals, fruit, or new plants

60. Certain types of _____ can be toxic to humans, causing severe illness if ingested.

n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

61. The toddler was excited to wear his new _____ shoes.

adj. very small or tiny; referring to a short amount of time

62. The _____ for the cake is passed down from generation to generation in her family.

n. a set of instructions for preparing a dish, including the ingredients and the method of cooking

63. The wildlife reserve is a vital _____ habitat for endangered species.

adj. not interrupted or interfered with; left alone; peaceful

ANSWERS: 56. convert, 57. Tropical, 58. disappear, 59. fertility, 60. fungus, 61. wee-sized, 62. recipe, 63. undisturbed

64. A smaller car will _____ less fuel.

v. to spend something, especially fuel, energy, or time, in a large amount

65. _____ 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

66. _____ advances have disrupted many industries.

adj. based on scientific and industrial progress

67. 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

68. We can find many large ____ mounds in this area.

n. a very small insect that lives under the ground or in a mound in highly organized groups

69. This company is faced with a _____ of problems.

n. a large number of things or people

70. The _____ by the citizen resulted in a redistribution of wealth.

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

71. 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

ANSWERS: 64. consume, 65. Bacteria, 66. Technological, 67. mitigate, 68. ant, 69. multitude, 70. revolution, 71. dirt

72. 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

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

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

74. _____ moisture is another significant component controlling soil respiration.

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

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

- adj.* relating to or connected with chemistry;

76. He refused to do anything _____ to help her.

- adv.* not at all; no matter what

77. New York is a city with a _____ ethnic population.

- adj.* including numerous categories of individuals or entities; various

78. They are planning to _____ the house after the fire.

- v.* to build again or anew

79. The forestry _____ studied the interactions between the different species in the forest's ecosystem.

- n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

ANSWERS: 72. stick, 73. Climate, 74. Soil, 75. chemical, 76. whatsoever, 77. diverse, 78. rebuild, 79. ecologist

80. The company has shown an excellent growth _____ over the years.
- n.* the curved path followed by an object moving through space
81. The professional _____ helped us pack and transport our furniture and belongings to our new home.
- n.* a person or company that specializes in moving goods or possessions from one location to another; a professional moving service or an individual who performs this task for friends, family members, or customers
82. After the earthquake, many of the buildings in the city were left in ruins and began to _____.
- v.* to break down or cause to break down over time into simpler substances or elements
83. He was proud to be a _____ of the prestigious university.
- n.* (informal for graduate) a student who has recently graduated or is about to graduate from a school, college, or university
84. 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
85. Greed is the primary _____ in the making of criminals.
- n.* one of the things used to make something, especially one of the foods used to make a particular dish
86. People have been exploring ways to _____ natural forces and resources since ancient times.
- v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 80. trajectory, 81. mover, 82. decompose, 83. grad, 84. biology, 85. ingredient, 86. harness

87. The sound of the drums _____ through the concert hall.
v. to make a loud, deep sound that echoes
88. He acted in _____ on her naked promises.
n. the state of depending on or needing something or someone
89. _____ weight is the sum of all the atoms.
adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
90. She took a quick _____ inside the box before closing it again.
n. a quick or furtive look; (verb) to take a quick and secret look at something
91. I heard the _____ of his boots in the hallway.
n. a small group of bushes, trees, flowers, people, etc.
92. This machine is too difficult to _____ for me.
v. to work in a particular way; to supervise something
93. The _____ was so bright that I had to wear sunglasses to protect my eyes.
n. the direct light and heat that comes from the sun
94. Governments _____ their citizens to buy eco-friendly products through subsidies.
v. to make someone want to do in a particular way by offering them a reward
95. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.
n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 87. resounded, 88. reliance, 89. Molecular, 90. peek, 91. clump, 92. operate, 93. sunshine, 94. incentivize, 95. computation

96. In _____ plants use carbon dioxide to feed themselves.
n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
97. The children tried to _____ out and eat the candy.
v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
98. Flight across the _____ was a daring adventure in its day.
n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
99. The lab technician used a _____ to create an emulsion for the experiment.
n. a device or substance used to scatter or disperse the liquid or solid particles, often to create a homogeneous solution or suspension
100. Many employers hire _____ trainees to train as managers.
n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
101. The company has made great strides in its _____ toward sustainability.
n. the act or process of changing to the next stage or phase or moving forward
102. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
103. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 96. photosynthesis, 97. sneak, 98. continent, 99. disperser, 100. graduate, 101. progression, 102. vast, 103. eventually

104. What is the entry _____ for this course?
n. something that is needed or wanted
105. The city _____ with traffic on holiday.
v. to be abuzz; to move in large numbers; to fall heavily
106. The consequences of the pandemic remain _____ as scientists continue to research the virus.
adj. not seen or noticed; not perceived
107. My father's death _____ my life completely.
v. to change in outward structure or looks;
108. 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
109. The design of the webpage has _____ slightly.
v. to cause to change or make different
110. Before authorities _____ the protesters, they yelled slogans.
v. to spread out or distribute over a broad region, or to cause something to do so
111. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected
112. 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

ANSWERS: 104. requirement, 105. teems, 106. unseen, 107. transformed, 108. discovery, 109. altered, 110. dispersed, 111. fundamental, 112. complexity

113. Companies developing self-driving cars consistently _____ the emerging technologies.
- v.* to introduce new methods, ideas, or products
114. 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
115. The vaccination does not necessarily make you completely _____.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
116. 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
117. He got an electric _____ at work.
- n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
118. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.
- n.* a complete change in form, nature, or appearance of someone or something
119. 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
120. He was impressed by the range and _____ of the collection.
- n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

ANSWERS: 113. innovate, 114. biomes, 115. immune, 116. humming, 117. shock, 118. transformations, 119. nutrients, 120. diversity

121. 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
122. The flower was starting to show its ____ and would soon bloom into a beautiful blossom.
- n.* a small swelling on a plant stem or twig containing an undeveloped shoot
123. The policies he announces can be the _____ of economic growth in the country.
- n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
124. Using a password manager can act as a _____ against hackers who try to steal your personal information.
- n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
125. The bartender quickly made a _____ of cocktails for the group of friends.
- n.* a container or device used to mix or shake substances, typically used in cooking or for preparing drinks; a member of a religious sect that grew out of a Quaker revival in the United States in the 19th century
126. The new phone is waterproof and can _____ being dropped in water.
- v.* to resist the effect or impact of something
127. The female birds build a ____ and lay their eggs in May.
- n.* a structure in which animals lay their eggs or give birth to their young

ANSWERS: 121. ecosystem, 122. bud, 123. engine, 124. buffer, 125. shaker, 126. withstand, 127. nest

128. The _____ of the mountain made it difficult to breathe.

n. the height of something above sea level or above the ground; the event of something being raised upward

129. Having a _____ healthy physique is essential for a great life.

adv. in a way related to a person's body or appearance rather than their mind

130. The food chain causes a material _____.

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

131. He has an _____ spirit and is unafraid of risks.

adj. willing to take risks and try new or difficult things

ANSWERS: 128. elevation, 129. physically, 130. cycle, 131. adventurous