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Vocabulary Builder Reference from...

Penny Chisholm: The tiny creature that secretly powers the planet | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

introductory

adj. intended as an introduction or preliminary; serving as a base or starting point

synonym: beginning, preliminary, initial

(1) **introductory** biology text, (2) product **introductory** sale
The **introductory** class was designed to give students a basic understanding of the subject.

microorganism

n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

synonym: germ, microbe, bacterium

(1) pathogenic **microorganism**, (2) **microorganisms** in his gut
This **microorganism** is a producer of respiratory disease.

amazing

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

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling
The golfer recorded an **amazing** distance.

ancestor

n. a person from whom one is descended; a forefather

synonym: forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**
My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

evolve

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

synonym: develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the **genetic** code.

blueprint

n. a photographic print of an early plan for a building or machine

synonym: draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint**

A business plan is a **blueprint** for your success.

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym: boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film producers.

fossil

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

synonym: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

fuel *n.* a substance that is typically burned to generate heat or energy
synonym: energy, power, gas
(1) biomass **fuel**, (2) smokeless **fuel**
The **fuel** scarcity most severely impacted the manufacturing sector

planet *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
synonym: earth, world, globe
(1) **planet** like the Earth, (2) save the **planet**
Mercury is the closest **planet** to the sun.

oxygen *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**
The passenger grabbed for the **oxygen** mask.

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**.

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.

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.

ancient

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

synonym: archaic, age-old, obsolete

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

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

absorb

v. to take in a fluid or other substance gradually

synonym: consume, soak, ingest

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

The sponge **absorbs** water well.

split

v. to divide, or to make something divide into two or more parts, especially along a particular line

synonym: break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

component

n. one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

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.

carbon

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

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

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

oxide

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

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

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

protein

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

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

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

amino

n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein

(1) **amino** compound, (2) **amino** acid

This company was granted a patent for its **amino** resin manufacturing process.

acid

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

synonym: SOUR

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

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

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.

life-form

n. a living organism, especially one that has a distinct shape, structure, or behavior

synonym : organism, species, living organism

(1) **life-form** discovery, (2) a minute **life-form**

Scientists are searching for signs of **life-form** on other planets.

ultimate

adj. furthest or highest in degree or order

synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

compress

v. to press or squeeze together to make something take up less space

synonym : condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

bury

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

synonym : entomb, sink, forget

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

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

sunlight

n. the light emitted by the sun; the rays of the sun
synonym: daylight, rays, sunshine

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

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

bond

n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

synonym: bind, adhesion, attachment

(1) **bond** as a family, (2) global **bond** market

They had formed a friendship **bond**.

coal

n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

synonym: ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants

We combust **coal** and other fossil fuels to generate electricity.

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.

descend

v. to move downward and lower; to come from, or to be connected by a relationship of blood

synonym: dip, drop, come down

(1) **descend** a steep hill, (2) **descend** by elevator

She was **descended** from an old Italian noble family.

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.

process

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

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**
The **process** for applying for a visa can be lengthy and complicated.

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.

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.

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**.

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.

microscopic

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

synonym: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

phytoplankton

n. tiny little plants that float on the surface of the water and on which sea creatures feed

(1) marine **phytoplankton**, (2) **phytoplankton** blooms

She studies the relationship between marine creatures' toxicity and the **phytoplankton** they feed on.

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**.

settle

v. to reach an agreement of disagreement

synonym: inhabit, occupy, decide

(1) **settle** a dispute, (2) **settle** down in the town

I don't want to **settle** for second best.

chow

n. a slang term for food, typically referring to a particular type of cuisine or meal, such as Chinese chow or chowder

synonym: food, grub, eats

(1) **chow** time, (2) fast **chow**

We decided to order some Chinese **chow** for dinner tonight.

weigh

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

synonym: consider, cogitate, count

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

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

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.

lung

n. either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation

He has terminal **lung** cancer.

biomass

n. the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms

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

The **biomass** in a forest can be measured by collecting and weighing all living plants within a specific area.

trunk

n. the main stem or body of a tree which its branches grow
synonym: body, chest, torso

(1) the **trunk** of the tree, (2) the **trunk** of the body

Destructive fungi thrive in moist environments, such as those seen in wounds on the **trunk**.

stem

n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

synonym: branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick

A rose has thorns on its **stem**.

maintain

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

synonym: preserve, uphold, sustain

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

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

divide

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

synonym: separate, disconnect, split

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

Can you **divide** 123321 by eleven?

lean

adj. having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

synonym: skinny, slender, (verb) slant

(1) a **lean** horse, (2) **lean** athletic figure

Lean operational improvements often lead to better environmental performance.

crank

n. a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person

synonym: eccentric, oddball, kook

(1) **crank** handle, (2) **crank** caller

The fishing reel had a **crank** that made it easy to reel in the catch.

roughly

adv. approximately but not precisely; with a violent manner

synonym: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

charismatic

adj. having a strong and magnetic personality that attracts and influences others

synonym: mesmerizing, alluring, captivating

(1) **charismatic** chairman, (2) **charismatic** personality

He was a **charismatic** leader and could persuade others to follow his ideas.

bunch

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

synonym : group, assemblage, bundle

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

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

schmutz

n. (a Yiddish word used in English) dirt, grime, or other small and dirty particles or imperfections, especially on a surface or object

synonym : gunk, dirt, grime

(1) **schmutz** on your shirt, (2) **schmutz** remover

There was some **schmutz** on the window that I had to clean off.

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.

slide

v. to move or cause to move smoothly along a surface without interruption

synonym : glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

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**.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym : workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

cytometry

n. the measurement or analysis of cells and cell components, such as size, shape, and composition, is often done using specialized instruments and techniques such as flow cytometry

(1) cell **cytometry**, (2) **cytometry** data

The study of tumor immunology often relies on **cytometry** techniques to characterize tumor immune cell populations.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym : evolve, progress, advance

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

We must **develop** a new system to streamline our workflow and increase efficiency.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**
Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

label

n. a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

synonym: tag, mark, identifier

(1) a mailing **label**, (2) **label** a bag with my name

The **label** on the food package lists the ingredients and nutritional information.

suited

adj. appropriate, fitting, or acceptable for a particular purpose or occasion; matched or corresponding to a specific person, dress, or circumstances

synonym: appropriate, fitting, suitable

(1) **suited** for the job, (2) well- **suited** personality

The job offer was perfectly **suited** to her skills and experience.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

capillary

n. a tube of small internal diameter; any of the minute tubes that carry blood

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

There are many **capillary** vessels in the gills of fish.

tube

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

synonym: pipe, hose, duct

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

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

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym: beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

scatter

v. to cause to separate and go in different directions

synonym: disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

stain

v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

synonym: discolor, tarnish, defile

(1) **stain** the carpet, (2) red wine **stain**

The allegations of corruption **stained** her reputation, and she struggled to regain public trust.

chlorophyll

n. any of a group of green pigments found in photosynthetic organisms

(1) **chlorophyll** pigment, (2) bacterial **chlorophyll**

Chlorophyll utilizes sunlight to create sugars.

instrument

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

synonym: apparatus, tool, device

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

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

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.

squirt

v. to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance

synonym: spray, eject, spurt

(1) **squirt** water, (2) **squirt** oil

She **squirted** the ketchup onto her fries before taking a bite.

seawater

n. water from the sea or ocean, typically containing salt and various other dissolved minerals

synonym: saltwater, brine, ocean water

(1) **seawater** pollution, (2) **seawater** bacteria

The desalination plant turned **seawater** into drinking water through a complex process.

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.

rig

v. to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts

synonym : set up, prepare, arrange

(1) **rig** an election, (2) **rig** a ship with new sails
He **rigged** the game so he could win the prize.

guarantee

v. to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met

synonym : assure, promise, warrant

(1) **guarantee** a high quality, (2) **guarantee** women equality
We cannot **guarantee** enough raw material sources.

charm

n. the power or quality of pleasing or fascinating people

synonym : allure, appeal, beauty

(1) masculine **charm**, (2) **charm** against bad luck

These are significantly more exquisite than typical **charm** bracelets.

vibration

n. a continuous quick and slight shaking movement

synonym : oscillation, fluctuation, reverberation

(1) protection against **vibration**, (2) sympathetic **vibration**
Vibration displaced part of the mechanism.

distribute

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

synonym : broadcast, disperse, hand out

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

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

exciting

adj. causing a lot of interest or excitement

synonym : exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

faint

adj. not strong, clear, or vigorous; slight or weak

synonym : slight, vague, soft

(1) **faint** memory, (2) **faint** aroma of roses

She heard a **faint**, nearly invisible scream.

dismiss

v. to regard something or someone as not important and not worth considering; to terminate someone's employment

synonym : decline, disband, dissolve

(1) **dismiss** a person from the office, (2) **dismiss** a matter with a laugh

The committee has decided to **dismiss** the president from the post.

electron

n. a tiny particle with the negative electrical charge

synonym : negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

abundant

adj. present in great quantity

synonym : ample, plentiful, generative

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

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

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym :

elementary, naive, rudimental

(1) **primitive** society, (2) artifact of a **primitive** humankind
The industry in this country is still **primitive**.

smite

v. to strike with a heavy blow or weapon; to defeat or conquer decisively; to afflict with sudden or severe pain or affliction

synonym: hit, strike, batter

(1) **smite** enemies, (2) **smite** a blow

The hero was able to **smite** the monster with a single blow.

redirect

v. to change the direction or course of something; to send in a different direction

synonym: turn, divert, steer

(1) **redirect** traffic, (2) **redirect** attention

The government decided to **redirect** funding towards education and healthcare.

loyalty

n. the quality of being devoted or faithful to someone or something

synonym: faithfulness, devotion, allegiance

(1) **loyalty** program, (2) earn his **loyalty**

He has always shown great **loyalty** to his friends and family.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

gyre

n. a circular or spiral motion, particularly a vortex or large-scale system of rotating ocean currents

synonym: spiral, vortex, whirl

(1) **gyre** movement, (2) subtropical **gyre**

The trash caught in the **gyre** in the ocean, forming a massive garbage patch.

refer

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

synonym: cite, allude, mention

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

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

desert

n. arid land with little or no vegetation often covered with sand or rocks

(1) **desert** basin, (2) oasis in the **desert**

This region is predominantly **desert**.

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.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym: enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly**

insecure

Several cities are experiencing **incredibly** high unemployment rates.

isolate

v. to physically or socially separate someone or something from other people or things

synonym: separate, sequester, insulate

(1) **isolate** a compound, (2) **isolate** a patient

You should not **isolate** them from the community.

ecotype

n. a population or community of organisms that have adapted to a specific and unique set of environmental conditions, leading to distinct characteristics and behaviors that set it apart from other populations of the same species

synonym : biotype, phenotype, variant

(1) forest **ecotype**, (2) **ecotype** adaptation

The study focused on the genetic diversity of a particular plant **ecotype**.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym : adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

intense

adj. (especially of a feeling) very strong; extremely sharp or severe

synonym : extreme, fierce, harsh

(1) **intense** heat, (2) develop **intense** itching

That statement by the prime minister drew **intense** international criticism.

sunlit

adj. illuminated or brightened by sunlight; exposed to sunlight

synonym : sun-drenched, sun-soaked

(1) **sunlit** garden, (2) **sunlit** path

The **sunlit** room casts a warm and inviting glow over everything inside.

zone

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

synonym : area, region, territory

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

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

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym : productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances
The new washing machine is much more **efficient** than the old one.

strain

n. a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

synonym: pressure, tension, breed

(1) **strain** our eyes, (2) a **strain** of bacillus

Dictators of the past often had the erroneous idea of a pure racial **strain**.

optimal

adj. the best; most likely to be successful or advantageous

synonym: optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to survive.

equator

n. an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

(1) south of the **equator**, (2) above the **equator**

Ecuador is on the **equator**.

temperature

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

synonym: climate, warmth, degree

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

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

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.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**
We do move forward with those tasks in **sequence** next week.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion chemical base pairs.

hood

n. a covering for the head and neck, especially one attached to a garment

synonym: hoodie, cowl, cloak

(1) **hood** ornament, (2) a silk **hood**

He pulled his waterproof **hood** up to protect himself from the rain.

makeup

n. colored substances used on someone's face to improve or change their appearance

synonym: maquillage, composition, cosmetic

(1) **makeup** artist, (2) take the **makeup** off her face

Her beauty resulted from a good night's sleep rather than **makeup**.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

enormous

adj. extremely large or great
synonym : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential
Shakespeare's output of poetry was **enormous**.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live
synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**
Every human is responsible for taking care of the Earth's **environment**.

thrive

v. to grow vigorously; to make steady progress
synonym : bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure
Without investment, a business cannot **thrive**.

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.

nitrogen

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

(1) heavy **nitrogen**, (2) **nitrogen** absorption
Nitrogen gas is used to inflate car tires because it does not react with rubber.

phosphorus

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

synonym : P, phosphoric, phosphorous

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

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

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

app

n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

synonym : application, software

(1) killer **app**, (2) cannot log in to the **app**

The discovery of a critical bug caused the company to delay the **app's** release.

built-in

adj. included as an integral part of something

synonym : integrated, inherent, equipped

(1) **built-in** feature, (2) **built-in** battery

The new car had a **built-in** navigation system.

delete

v. to remove something, especially that has been written; to wipe out digitally or magnetically recorded information

synonym : erase, wipe out, remove

(1) **delete** a file, (2) **delete** this modification

Highlight the sentences that you want to **delete**.

jiggle

v. to move or shake with small quick movements, often in a slightly playful or teasing way

synonym : shake, wiggle, twitch

(1) **jiggle** the handle, (2) **jiggle** the keys

The airplane experienced turbulence, causing the passengers to **jiggle** in their seats.

rid

v. to make someone or something free of unwanted or unpleasant tasks, objects, or person

synonym : do away with, free, clear

(1) get **rid** of the rats, (2) **rid** the body of waste products
We must **rid** ourselves of pollution.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

essence

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

synonym : core, nature, disposition

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

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

umbrella

n. a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun

synonym : parasol, canopy, sunshade

(1) **umbrella** coverage, (2) **umbrella** ban

She opened her **umbrella** to protect herself from the rain.

evolutionary

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

synonym : developmental, mutative, transformative

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

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

organism

n. a tiny living thing

synonym : being, creature

(1) aerobic **organism**, (2) group of **organisms**

A diversified plant species generally enhances beneficial **organism** populations.

dominate

v. to have or control a lot of power and influence over somebody or something

synonym: govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak

The perspective of his right brain **dominates** his consciousness.

stability

n. the quality or attribute of being firm and steadfast

synonym: resilience, solidity, steadiness

(1) **stability** pact, (2) fiscal **stability** pact

The policy should increase the country's monetary **stability**.

daydreaming

n. the act of thinking about something that you would prefer to be doing or have happened to you

synonym: reverie, cloud-castle, imagination

(1) stimulate **daydreaming**, (2) the mental process of **daydreaming**

I often waste a lot of time **daydreaming**.

inevitably

adv. in a manner that cannot be avoided or prevented

synonym: unavoidably, necessarily, surely

(1) **inevitably** decline with age, (2) **inevitably** reach the consumer

Because of his excellent performance, he will **inevitably** be promoted.

masterpiece

n. a work of art that is exceptionally good or highly skilled; a great achievement

synonym: classic, chef-d'oeuvre, magnum opus

(1) literary **masterpiece**, (2) a **masterpiece** of design

The Mona Lisa is widely considered to be a **masterpiece** of art.

tune

n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

synonym: melody, harmony, (verb) adjust

(1) the **tune** of a song, (2) **tune** a piano
The band played a beautiful **tune** on their instruments.

evolution

n. a gradual process of transformation of living things
synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory
They study the **evolution** of the universe.

ingenuity

n. the quality of inventing things or solving problems in clever new ways
synonym: creativity, invention, originality

(1) the infinite **ingenuity** of man, (2) abound in **ingenuity**
Creativity and **ingenuity** are often brought about by extreme concentration.

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.

blink

v. to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
synonym: twinkle, flash, flicker

(1) **blink** his eyes, (2) **blink** in astonishment
He **blinked** in the dazzling sunlight.

geology

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

(1) bureau of **geology**, (2) local **geology**
He was a visiting **geology** professor at the University of Tokyo.

timescale

n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of

time; a reference point or benchmark for the duration or length of a particular event or process

synonym : time frame, schedule, duration

(1) long- **timescale**, (2) realistic **timescale**

The **timescale** for completing the construction project is three years.

greenhouse

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

synonym : conservatory

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

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

beloved

adj. loved very much

synonym : adored, cherished, dear

(1) **beloved** author, (2) **beloved** by many people

I am here to save my **beloved**.

doom

n. death, destruction, or some other terrible situation that cannot be avoided

synonym : judgment, destiny, fate

(1) economic **doom**, (2) prophet of **doom**

Everyone was aware of the impending **doom** but was unable to prevent it.

projection

n. the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something

synonym : estimate, forecast, prediction

(1) draw a **projection** chart, (2) **projection** mapping

The weather forecast includes a **projection** of the high and low temperatures for the next week.

expand

v. to increase or to make something greater in size, number, or importance

synonym: extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

undertake

v. to do or begin to do something, such as an enterprise or responsibility

synonym: assume, take on, embark

(1) **undertake** an enterprise, (2) **undertake** routine duties

Young people in this country should **undertake** military duties.

zooplankton

n. very small animals that live in water and on which other sea creatures feed

(1) freshwater **zooplankton**, (2) floating **zooplankton**

The diversity of riverine ecosystems influences the variety of **zooplankton** in marine areas.

harvest

n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm

synonym: crop, reaping, yield

(1) a scanty **harvest**, (2) reap a **harvest**

During **harvest**, farmers are incredibly busy.

muse

n. a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists

synonym: source of inspiration, minstrel, versifier

(1) **muse** inspiration, (2) creative **muse**

She gazed out the window, deep in thought, as if waiting for

her **muse** to strike.

Session 2: Spelling

1. en____us amount *adj.* extremely large or great
2. protection against vi_____on *n.* a continuous quick and slight shaking movement
3. de____t basin *n.* arid land with little or no vegetation often covered with sand or rocks
4. a minute li_____rm *n.* a living organism, especially one that has a distinct shape, structure, or behavior
5. 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.
6. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
7. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
8. gu_____ee a high quality *v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
9. pathogenic mic_____ism *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

ANSWERS: 1. enormous, 2. vibration, 3. desert, 4. life-form, 5. photosynthesis, 6. tremendous, 7. laser, 8. guarantee, 9. microorganism

10. co____ss the chest *v.* to press or squeeze together to make something take up less space
11. di___e money equally *v.* to separate or cause to separate into parts or groups
12. ro____y explain my idea *adv.* approximately but not precisely; with a violent manner
13. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
14. the tr__k of the body *n.* the main stem or body of a tree which its branches grow
15. 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
16. do_____te possession *v.* to have or control a lot of power and influence over somebody or something
17. se___e down in the town *v.* to reach an agreement of disagreement
18. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
19. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
20. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing
21. subtropical g__e *n.* a circular or spiral motion, particularly a vortex or large-scale system of rotating ocean currents

ANSWERS: 10. compress, 11. divide, 12. roughly, 13. rainforest, 14. trunk, 15. engine, 16. dominate, 17. settle, 18. lab, 19. fundamental, 20. lung, 21. gyre

22. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
23. in direct su____ht *n.* the light emitted by the sun; the rays of the sun
24. c__e business activity *n.* the most essential or fundamental part of something
25. di____s a person from the office *v.* to regard something or someone as not important and not worth considering; to terminate someone's employment
26. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
27. sq____t water *v.* to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance
28. pulse la__r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
29. literary mas____ce *n.* a work of art that is exceptionally good or highly skilled; a great achievement
30. the c__e of an apple *n.* the most essential or fundamental part of something
31. inc____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
32. sq____t oil *v.* to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance
33. a glare of su____ht *n.* the light emitted by the sun; the rays of the sun

ANSWERS: 22. biology, 23. sunlight, 24. core, 25. dismiss, 26. emit, 27. squirt, 28. laser, 29. masterpiece, 30. core, 31. incredibly, 32. squirt, 33. sunlight

34. 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
35. architect's bl_____nt *n.* a photographic print of an early plan for a building or machine
36. cannot log in to the a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
37. bl_____nt for economic reform *n.* a photographic print of an early plan for a building or machine
38. live an ab_____nt life *adj.* present in great quantity
39. ec_____e adaptation *n.* a population or community of organisms that have adapted to a specific and unique set of environmental conditions, leading to distinct characteristics and behaviors that set it apart from other populations of the same species
40. lack of ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
41. op_____l for intellectual growth *adj.* the best; most likely to be successful or advantageous
42. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
43. li_____rm discovery *n.* a living organism, especially one that has a distinct shape, structure, or behavior

ANSWERS: 34. organic, 35. blueprint, 36. app, 37. blueprint, 38. abundant, 39. ecotype, 40. oxygen, 41. optimal, 42. bunch, 43. life-form

44. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
45. fa__t memory *adj.* not strong, clear, or vigorous; slight or weak
46. in_____le stars *adj.* impossible or nearly impossible to see
47. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
48. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
49. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
50. earliest human an_____or *n.* a person from whom one is descended; a forefather
51. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
52. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
53. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
54. ji____e the keys *v.* to move or shake with small quick movements, often in a slightly playful or teasing way

ANSWERS: 44. biomedical, 45. faint, 46. invisible, 47. experiment, 48. fossil, 49. maintain, 50. ancestor, 51. bury, 52. cancer, 53. evolutionary, 54. jiggle

55. 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
56. cr__k handle *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
57. int_____ory biology text *adj.* intended as an introduction or preliminary; serving as a base or starting point
58. oasis in the de____t *n.* arid land with little or no vegetation often covered with sand or rocks
59. lo_____y program *n.* the quality of being devoted or faithful to someone or something
60. an_____or language *n.* a person from whom one is descended; a forefather
61. floating zoo_____on *n.* very small animals that live in water and on which other sea creatures feed
62. burning of fo____l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
63. re_____ct attention *v.* to change the direction or course of something; to send in a different direction
64. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
65. fast c__w *n.* a slang term for food, typically referring to a particular type of cuisine or meal, such as Chinese chow or chowder

ANSWERS: 55. terrestrial, 56. crank, 57. introductory, 58. desert, 59. loyalty, 60. ancestor, 61. zooplankton, 62. fossil, 63. redirect, 64. oxide, 65. chow

66. acc_____te evidence *v.* to collect or acquire a large number of things over a long period of time
67. bu_____in battery *adj.* included as an integral part of something
68. biomass f__l *n.* a substance that is typically burned to generate heat or energy
69. chl_____ll pigment *n.* any of a group of green pigments found in photosynthetic organisms
70. gu_____ee women equality *v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
71. an ab_____nt supply of water *adj.* present in great quantity
72. 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
73. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
74. ca_____ry action *n.* a tube of small internal diameter; any of the minute tubes that carry blood
75. r_g a ship with new sails *v.* to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts
76. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

ANSWERS: 66. accumulate, 67. built-in, 68. fuel, 69. chlorophyll, 70. guarantee, 71. abundant, 72. discovery, 73. genetic, 74. capillary, 75. rig, 76. rev

77. fuel bi_____s *n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
78. pho_____us element *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
79. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
80. bu_____in feature *adj.* included as an integral part of something
81. l___g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
82. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
83. take the ma___p off her face *n.* colored substances used on someone's face to improve or change their appearance
84. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
85. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
86. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 77. biomass, 78. phosphorus, 79. expand, 80. built-in, 81. lung, 82. genetic, 83. makeup, 84. rev, 85. bunch, 86. split

87. yellow pho_____us *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
88. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
89. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
90. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
91. de_____d a steep hill *v.* to move downward and lower; to come from, or to be connected by a relationship of blood
92. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
93. am__o compound *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
94. un_____ke an enterprise *v.* to do or begin to do something, such as an enterprise or responsibility

ANSWERS: 87. phosphorus, 88. diverse, 89. protein, 90. instrument, 91. descend, 92. develop, 93. amino, 94. undertake

95. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
96. sequencing of the human ge____e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
97. th____e on pressure *v.* to grow vigorously; to make steady progress
98. su____d for the job *adj.* appropriate, fitting, or acceptable for a particular purpose or occasion; matched or corresponding to a specific person, dress, or circumstances
99. ev____e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
100. ex_____ng football player *adj.* causing a lot of interest or excitement
101. 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
102. de____e this modification *v.* to remove something, especially that has been written; to wipe out digitally or magnetically recorded information
103. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
104. 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

ANSWERS: 95. microscopic, 96. genome, 97. thrive, 98. suited, 99. evolve, 100. exciting, 101. carbon, 102. delete, 103. efficient, 104. discovery

105. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
106. ine_____ly reach the consumer *adv.* in a manner that cannot be avoided or prevented
107. sympathetic vi_____on *n.* a continuous quick and slight shaking movement
108. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
109. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
110. a ca_____ry tube *n.* a tube of small internal diameter; any of the minute tubes that carry blood
111. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
112. the mental process of day_____ng *n.* the act of thinking about something that you would prefer to be doing or have happened to you
113. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
114. um_____la coverage *n.* a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
115. well-su___d personality *adj.* appropriate, fitting, or acceptable for a particular purpose or occasion; matched or corresponding to a specific person, dress, or circumstances

ANSWERS: 105. slide, 106. inevitably, 107. vibration, 108. environment, 109. sequence, 110. capillary, 111. roughly, 112. daydreaming, 113. tremendous, 114. umbrella, 115. suited

116. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
117. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
118. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
119. the infinite in_____ty of man *n.* the quality of inventing things or solving problems in clever new ways
120. economic d__m *n.* death, destruction, or some other terrible situation that cannot be avoided
121. mic_____isms in his gut *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
122. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
123. an in_____le asset *adj.* impossible or nearly impossible to see
124. a st____n of bacillus *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups
125. the s__m of a matchstick *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

ANSWERS: 116. evolutionary, 117. amazing, 118. nitrogen, 119. ingenuity, 120. doom, 121. microorganism, 122. temperature, 123. invisible, 124. strain, 125. stem

126. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
127. in____e heat *adj.* (especially of a feeling) very strong; extremely sharp or severe
128. the atmospheric tem____re *n.* the degree of hotness or coldness of a thing or place
129. artifact of a pr____ve humankind *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
130. m__e inspiration *n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists
131. sm__e a blow *v.* to strike with a heavy blow or weapon; to defeat or conquer decisively; to afflict with sudden or severe pain or affliction
132. masculine ch__m *n.* the power or quality of pleasing or fascinating people
133. ab___b energy *v.* to take in a fluid or other substance gradually
134. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
135. surgical ins____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 126. fuel, 127. intense, 128. temperature, 129. primitive, 130. muse, 131. smite, 132. charm, 133. absorb, 134. split, 135. instrument

136. flow of el_____ons *n.* a tiny particle with the negative electrical charge
137. cha_____ic chairman *adj.* having a strong and magnetic personality that attracts and influences others
138. ch__m against bad luck *n.* the power or quality of pleasing or fascinating people
139. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
140. 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.
141. s__m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
142. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
143. se_____er pollution *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
144. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things

ANSWERS: 136. electron, 137. charismatic, 138. charm, 139. ecosystem, 140. photosynthesis, 141. stem, 142. maintain, 143. seawater, 144. genome

145. vanilla es_____e *n.* the basic or most important part or quality of something that makes it what it is
146. de_____d by elevator *v.* to move downward and lower; to come from, or to be connected by a relationship of blood
147. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
148. be_____d author *adj.* loved very much
149. group of or_____sms *n.* a tiny living thing
150. sc_____r around the internet *v.* to cause to separate and go in different directions
151. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
152. a l____n horse *adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture
153. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
154. acc_____te cash value *v.* to collect or acquire a large number of things over a long period of time
155. creative m____e *n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists
156. achieve op_____l health *adj.* the best; most likely to be successful or advantageous
157. re_____ct traffic *v.* to change the direction or course of something; to send in a different direction

ANSWERS: 145. essence, 146. descend, 147. biology, 148. beloved, 149. organism, 150. scatter, 151. amazing, 152. lean, 153. smartphone, 154. accumulate, 155. muse, 156. optimal, 157. redirect

158. se_____er bacteria *n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
159. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
160. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
161. freshwater zoo_____on *n.* very small animals that live in water and on which other sea creatures feed
162. an a__d reaction *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
163. product int_____ory sale *adj.* intended as an introduction or preliminary; serving as a base or starting point
164. exotic plants in a gre_____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
165. um_____la ban *n.* a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun

ANSWERS: 158. seawater, 159. process, 160. crop, 161. zooplankton, 162. acid, 163. introductory, 164. greenhouse, 165. umbrella

166. am__o acid *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
167. a c__l-fired ship *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
168. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
169. a silk h__d *n.* a covering for the head and neck, especially one attached to a garment
170. st___n our eyes *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups
171. de___e a file *v.* to remove something, especially that has been written; to wipe out digitally or magnetically recorded information
172. pr_____ve society *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
173. in___t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
174. a mailing la__l *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

ANSWERS: 166. amino, 167. coal, 168. component, 169. hood, 170. strain, 171. delete, 172. primitive, 173. inject, 174. label

175. en____us potential *adj.* extremely large or great
176. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
177. abound in in____ty *n.* the quality of inventing things or solving problems in clever new ways
178. is____e a compound *v.* to physically or socially separate someone or something from other people or things
179. in____t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
180. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
181. l__n athletic figure *adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture
182. sm__e enemies *v.* to strike with a heavy blow or weapon; to defeat or conquer decisively; to afflict with sudden or severe pain or affliction
183. aerobic or____sm *n.* a tiny living thing
184. south of the eq____r *n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
185. is____e a patient *v.* to physically or socially separate someone or something from other people or things

ANSWERS: 175. enormous, 176. lab, 177. ingenuity, 178. isolate, 179. inject, 180. bury, 181. lean, 182. smite, 183. organism, 184. equator, 185. isolate

186. 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
187. good source of essential amino a__ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
188. ma___p artist *n.* colored substances used on someone's face to improve or change their appearance
189. beam of el_____ons *n.* a tiny particle with the negative electrical charge
190. heavy hy_____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
191. di_____s a matter with a laugh *v.* to regard something or someone as not important and not worth considering; to terminate someone's employment
192. a ch_____al compound *adj.* relating to or connected with chemistry;
193. 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
194. time z__e *n.* a specific area, region, or section that is marked off or defined in some way
195. stimulate day_____ng *n.* the act of thinking about something that you would prefer to be doing or have happened to you

ANSWERS: 186. engine, 187. acid, 188. makeup, 189. electron, 190. hydrogen, 191. dismiss, 192. chemical, 193. atmosphere, 194. zone, 195. daydreaming

196. fa__t aroma of roses *adj.* not strong, clear, or vigorous; slight or weak
197. ad__t as needed *v.* to make fit for or change to suit a new purpose or environment
198. cell cy_____ry *n.* the measurement or analysis of cells and cell components, such as size, shape, and composition, is often done using specialized instruments and techniques such as flow cytometry
199. develop in_____e itching *adj.* (especially of a feeling) very strong; extremely sharp or severe
200. pro_____on mapping *n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something
201. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
202. global b__d market *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
203. killer a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
204. r_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

ANSWERS: 196. faint, 197. adapt, 198. cytometry, 199. intense, 200. projection, 201. weigh, 202. bond, 203. app, 204. rid

205. 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
206. ev _____on theory *n.* a gradual process of transformation of living things
207. a private ind _____al *n.* a single person or thing, as distinct from a group
208. t__e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
209. pr _____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
210. ef _____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
211. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
212. prophet of d__m *n.* death, destruction, or some other terrible situation that cannot be avoided
213. ine _____ly decline with age *adv.* in a manner that cannot be avoided or prevented

ANSWERS: 205. organic, 206. evolution, 207. individual, 208. tune, 209. protein, 210. efficient, 211. refer, 212. doom, 213. inevitably

214. fiscal st_____ty pact *n.* the quality or attribute of being firm and steadfast
215. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
216. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
217. ex_____ng news *adj.* causing a lot of interest or excitement
218. 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
219. co_____ss gas *v.* to press or squeeze together to make something take up less space
220. ind_____al freedom *n.* a single person or thing, as distinct from a group
221. bi_____s energy *n.* the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms
222. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
223. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
224. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 214. stability, 215. smartphone, 216. incredibly, 217. exciting, 218. atmosphere, 219. compress, 220. individual, 221. biomass, 222. sequence, 223. microbe, 224. process

225. reap a ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
226. 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
227. un____ke routine duties *v.* to do or begin to do something, such as an enterprise or responsibility
228. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
229. construction of new c__l plants *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
230. sl__e a glance *v.* to move or cause to move smoothly along a surface without interruption
231. phy____ton blooms *n.* tiny little plants that float on the surface of the water and on which sea creatures feed
232. 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
233. above the eq____r *n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

ANSWERS: 225. harvest, 226. planet, 227. undertake, 228. tube, 229. coal, 230. slide, 231. phytoplankton, 232. diversity, 233. equator

234. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
235. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
236. the t__e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
237. a scanty ha_____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
238. red wine st__n *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
239. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
240. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
241. get r_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
242. hy_____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

ANSWERS: 234. experiment, 235. biomedical, 236. tune, 237. harvest, 238. stain, 239. evolve, 240. environment, 241. rid, 242. hydrogen

243. bl__k his eyes *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
244. su___t garden *adj.* illuminated or brightened by sunlight; exposed to sunlight
245. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
246. c__w time *n.* a slang term for food, typically referring to a particular type of cuisine or meal, such as Chinese chow or chowder
247. se___e a dispute *v.* to reach an agreement of disagreement
248. ab___b a shock *v.* to take in a fluid or other substance gradually
249. emissions of gre_____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
250. sc_____r seeds *v.* to cause to separate and go in different directions
251. do_____te over the weak *v.* to have or control a lot of power and influence over somebody or something
252. the tr__k of the tree *n.* the main stem or body of a tree which its branches grow
253. universal es_____e *n.* the basic or most important part or quality of something that makes it what it is
254. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance

ANSWERS: 243. blink, 244. sunlit, 245. rainforest, 246. chow, 247. settle, 248. absorb, 249. greenhouse, 250. scatter, 251. dominate, 252. trunk, 253. essence, 254. expand

255. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
256. cha_____ic personality *adj.* having a strong and magnetic personality that attracts and influences others
257. 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
258. earn his lo_____y *n.* the quality of being devoted or faithful to someone or something
259. forest ec_____e *n.* a population or community of organisms that have adapted to a specific and unique set of environmental conditions, leading to distinct characteristics and behaviors that set it apart from other populations of the same species
260. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
261. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
262. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
263. be_____d by many people *adj.* loved very much
264. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
265. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 255. microscope, 256. charismatic, 257. diversity, 258. loyalty, 259. ecotype, 260. geology, 261. adapt, 262. diverse, 263. beloved, 264. emit, 265. microbe

266. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
267. th___e in a society *v.* to grow vigorously; to make steady progress
268. heavy ni____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
269. we__h a cargo *v.* to have a particular weight; to carefully evaluate things before making a conclusion
270. st_____ty pact *n.* the quality or attribute of being firm and steadfast
271. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
272. dis_____te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
273. long-ti_____le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
274. draw a pro_____on chart *n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something

ANSWERS: 266. divide, 267. thrive, 268. nitrogen, 269. weigh, 270. stability, 271. microscope, 272. distribute, 273. timescale, 274. projection

275. 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
276. pre-Christian an____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
277. 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
278. 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
279. in____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
280. st__n the carpet *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
281. la__l a bag with my name *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
282. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
283. t__m down *v.* to be abuzz; to move in large numbers; to fall heavily
284. a glass t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 275. carbon, 276. ancient, 277. planet, 278. terrestrial, 279. inspire, 280. stain, 281. label, 282. crop, 283. teem, 284. tube

285. cy_____ry data *n.* the measurement or analysis of cells and cell components, such as size, shape, and composition, is often done using specialized instruments and techniques such as flow cytometry
286. bacterial chl_____ll *n.* any of a group of green pigments found in photosynthetic organisms
287. co_____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
288. g__e movement *n.* a circular or spiral motion, particularly a vortex or large-scale system of rotating ocean currents
289. the ul_____te goal in life *adj.* furthest or highest in degree or order
290. local ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
291. sc_____z remover *n.* (a Yiddish word used in English) dirt, grime, or other small and dirty particles or imperfections, especially on a surface or object
292. co_____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
293. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
294. a mas_____ce of design *n.* a work of art that is exceptionally good or highly skilled; a great achievement
295. toxic ch_____als *adj.* relating to or connected with chemistry;

ANSWERS: 285. cytometry, 286. chlorophyll, 287. convert, 288. gyre, 289. ultimate, 290. geology, 291. schmutz, 292. convert, 293. cancer, 294. masterpiece, 295. chemical

296. su___t path *adj.* illuminated or brightened by sunlight; exposed to sunlight
297. t__m with activity *v.* to be abuzz; to move in large numbers; to fall heavily
298. key co_____nt *n.* one of several parts that combines with others to form something bigger
299. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
300. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
301. sc_____z on your shirt *n.* (a Yiddish word used in English) dirt, grime, or other small and dirty particles or imperfections, especially on a surface or object
302. z__e defense *n.* a specific area, region, or section that is marked off or defined in some way
303. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
304. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
305. realistic ti_____le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
306. an_____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

ANSWERS: 296. sunlit, 297. teem, 298. component, 299. nutrient, 300. ecosystem, 301. schmutz, 302. zone, 303. nutrient, 304. fundamental, 305. timescale, 306. ancient

307. marine phy_____ton *n.* tiny little plants that float on the surface of the water and on which sea creatures feed
308. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
309. in_____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
310. h__d ornament *n.* a covering for the head and neck, especially one attached to a garment
311. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
312. human ev_____on *n.* a gradual process of transformation of living things
313. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
314. cr__k caller *n.* a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
315. b__d as a family *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
316. bl__k in astonishment *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

ANSWERS: 307. phytoplankton, 308. refer, 309. inspire, 310. hood, 311. oxide, 312. evolution, 313. microscopic, 314. crank, 315. bond, 316. blink

317. ji___e the handle *v.* to move or shake with small quick movements, often in a slightly playful or teasing way
318. the ul_____te luxury *adj.* furthest or highest in degree or order
319. r_g an election *v.* to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts
320. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
321. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
322. dis_____te video content *v.* to give something to a large number of individuals, or to spread or furnish something

ANSWERS: 317. jiggle, 318. ultimate, 319. rig, 320. oxygen, 321. develop, 322. distribute

Session 3: Fill in the Blanks

1. I am here to save my _____.
adj. loved very much
2. The passenger grabbed for the _____ mask.
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
3. Without investment, a business cannot _____.
v. to grow vigorously; to make steady progress
4. He has _____ his wealth through real estate investments.
v. to collect or acquire a large number of things over a long period of time
5. During pregnancy, the stomach generates less _____ than usual.
n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
6. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;
7. She heard a _____ nearly invisible scream.
adj. not strong, clear, or vigorous; slight or weak
8. She studies the relationship between marine creatures' toxicity and the _____ they feed on.
n. tiny little plants that float on the surface of the water and on which sea creatures feed

ANSWERS: 1. beloved, 2. oxygen, 3. thrive, 4. accumulated, 5. acid, 6. chemical, 7. faint, 8. phytoplankton

9. The baby _____ 1 pound 3 oz.
v. to have a particular weight; to carefully evaluate things before making a conclusion
10. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
11. The hero was able to _____ the monster with a single blow.
v. to strike with a heavy blow or weapon; to defeat or conquer decisively; to afflict with sudden or severe pain or affliction
12. The city _____ with traffic on holiday.
v. to be abuzz; to move in large numbers; to fall heavily
13. Sow early for an early _____.
n. a plant that is cultivated in large amounts, particularly for food
14. She was _____ from an old Italian noble family.
v. to move downward and lower; to come from, or to be connected by a relationship of blood
15. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
16. This region is predominantly _____.
n. arid land with little or no vegetation often covered with sand or rocks
17. They study the _____ of the universe.
n. a gradual process of transformation of living things

ANSWERS: 9. weighs, 10. lab, 11. smite, 12. teems, 13. crop, 14. descended, 15. sequence, 16. desert, 17. evolution

18. The _____ and the oxygen react and then form water.
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
19. The diversity of riverine ecosystems influences the variety of _____ in marine areas.
n. very small animals that live in water and on which other sea creatures feed
20. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
21. University teaches the art of understanding the _____ of the matter.
n. the basic or most important part or quality of something that makes it what it is
22. Shakespeare's output of poetry was _____.
adj. extremely large or great
23. This company was granted a patent for its _____ resin manufacturing process.
n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
24. _____ utilizes sunlight to create sugars.
n. any of a group of green pigments found in photosynthetic organisms
25. He has always shown great _____ to his friends and family.
n. the quality of being devoted or faithful to someone or something
26. Every human is responsible for taking care of the Earth's _____.
n. the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 18. hydrogen, 19. zooplankton, 20. roughly, 21. essence, 22. enormous, 23. amino, 24. Chlorophyll, 25. loyalty, 26. environment

27. One bad apple spoils the whole _____.
- n.* a grouping of several similar things which are growing or fastened together
28. His estate was _____ to his sons.
- v.* to give something to a large number of individuals, or to spread or furnish something
29. _____ gas is used to inflate car tires because it does not react with rubber.
- n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
30. Management must take _____ responsibility for the accident.
- adj.* furthest or highest in degree or order
31. 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
32. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
33. A diversified plant species generally enhances beneficial _____ populations.
- n.* a tiny living thing
34. _____ compounds are commonly used to manufacture fertilizers to promote plant growth.
- n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element

ANSWERS: 27. bunch, 28. distributed, 29. Nitrogen, 30. ultimate, 31. engine, 32. process, 33. organism, 34. Phosphorus

35. Eyeless fish _____ in dark caves.

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

36. My remote _____ immigrated to the United States from Ireland in the 1800s.

n. a person from whom one is descended; a forefather

37. He pulled his waterproof _____ up to protect himself from the rain.

n. a covering for the head and neck, especially one attached to a garment

38. I often waste a lot of time _____.

n. the act of thinking about something that you would prefer to be doing or have happened to you

39. His _____ showed highly positive results.

n. the scientific test conducted to observe what happens and gain new knowledge

40. Dictators of the past often had the erroneous idea of a pure racial _____.

n. a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

41. The industry in this country is still _____.

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

42. If necessary, you can _____ the front seats forward.

v. to move or cause to move smoothly along a surface without interruption

ANSWERS: 35. evolved, 36. ancestor, 37. hood, 38. daydreaming, 39. experiments, 40. strain, 41. primitive, 42. slide

43. The trash caught in the _____ in the ocean, forming a massive garbage patch.
n. a circular or spiral motion, particularly a vortex or large-scale system of rotating ocean currents
44. The fishing reel had a _____ that made it easy to reel in the catch.
n. a mechanical device that converts rotary motion into linear motion or vice versa; an eccentric or unpredictable person
45. The new washing machine is much more _____ than the old one.
adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
46. The study focused on the genetic diversity of a particular plant _____.
n. a population or community of organisms that have adapted to a specific and unique set of environmental conditions, leading to distinct characteristics and behaviors that set it apart from other populations of the same species
47. We combust _____ and other fossil fuels to generate electricity.
n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
48. The _____ scarcity most severely impacted the manufacturing sector
n. a substance that is typically burned to generate heat or energy
49. He was a visiting _____ professor at the University of Tokyo.
n. a science that deals with the history of the earth as recorded in rocks
50. The job offer was perfectly _____ to her skills and experience.
adj. appropriate, fitting, or acceptable for a particular purpose or occasion; matched or corresponding to a specific person, dress, or circumstances

ANSWERS: 43. gyre, 44. crank, 45. efficient, 46. ecotype, 47. coal, 48. fuel, 49. geology, 50. suited

51. He _____ in the dazzling sunlight.

- v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way

52. _____ displaced part of the mechanism.

- n.* a continuous quick and slight shaking movement

53. Creativity and _____ are often brought about by extreme concentration.

- n.* the quality of inventing things or solving problems in clever new ways

54. _____ operational improvements often lead to better environmental performance.

- adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

55. She _____ the files into a single ZIP archive to save space on her computer.

- v.* to press or squeeze together to make something take up less space

56. 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

57. He was reluctant to leave his comfort _____ and try something new.

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

58. The band played a beautiful _____ on their instruments.

- n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

ANSWERS: 51. blinked, 52. Vibration, 53. ingenuity, 54. Lean, 55. compressed, 56. ecosystem, 57. zone, 58. tune

59. He stepped on the gas pedal, and the engine released a loud ____.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
60. Companies often _____ their shares to lower the stock price and encourage investors to buy.
- v.* to divide, or to make something divide into two or more parts, especially along a particular line
61. Wild animals need to go forward with the _____ action to survive.
- adj.* the best; most likely to be successful or advantageous
62. 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.
63. Scientists are searching for signs of _____ on other planets.
- n.* a living organism, especially one that has a distinct shape, structure, or behavior
64. 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
65. A rose has thorns on its ____.
- n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

ANSWERS: 59. rev, 60. split, 61. optimal, 62. photosynthesis, 63. life-form, 64. atmosphere, 65. stem

66. A business plan is a _____ for your success.
n. a photographic print of an early plan for a building or machine
67. The body needs a certain amount of _____ to build and repair tissues.
n. a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
68. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
69. The hunter's approach _____ the geese.
v. to cause to separate and go in different directions
70. 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
71. Internet traffic volumes have increased significantly with the advent of _____.
n. a mobile phone that functions as a computer and connects to the Internet
72. 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
73. The human _____ contains approximately three billion chemical base pairs.
n. the complete set or sequence of genes of a human, animal, plant, or other living things

ANSWERS: 66. blueprint, 67. protein, 68. oxide, 69. scattered, 70. diversity, 71. smartphones, 72. planet, 73. genome

74. The unique style of this martial arts _____ many action film producers.

- v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

75. Human behavior has _____ characteristics.

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

76. We must ___ ourselves of pollution.

- v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

77. Young people in this country should _____ military duties.

- v.* to do or begin to do something, such as an enterprise or responsibility

78. I need to _____ my car regularly to prevent any major mechanical issues.

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

79. 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

80. There are many _____ vessels in the gills of fish.

- n.* a tube of small internal diameter; any of the minute tubes that carry blood

81. The Mona Lisa is widely considered to be a _____ of art.

- n.* a work of art that is exceptionally good or highly skilled; a great achievement

ANSWERS: 74. inspired, 75. fundamental, 76. rid, 77. undertake, 78. maintain, 79. rainforest, 80. capillary, 81. masterpiece

82. 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

83. Ecuador is on the _____.

- n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

84. Breast _____ is the most common type of cancer in women.

- n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

85. _____ 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

86. The study of tumor immunology often relies on _____ techniques to characterize tumor immune cell populations.

- n.* the measurement or analysis of cells and cell components, such as size, shape, and composition, is often done using specialized instruments and techniques such as flow cytometry

87. 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

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

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

ANSWERS: 82. carbon, 83. equator, 84. cancer, 85. Microbes, 86. cytometry, 87. organic, 88. diverse

89. The airplane experienced turbulence, causing the passengers to _____ in their seats.
- v.* to move or shake with small quick movements, often in a slightly playful or teasing way
90. We had a _____ time yesterday.
- adj.* very great in degree or extent or amount or impact; extremely good
91. This electronic _____ is required to undergo periodic inspections to ensure precision.
- n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
92. This _____ is a producer of respiratory disease.
- n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
93. The discovery of a critical bug caused the company to delay the _____ release.
- n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
94. The researchers try to discover a common _____ in all types of successful organizations.
- n.* one of several parts that combines with others to form something bigger
95. The findings of the experiment were both _____ and unexpected.
- adj.* causing a lot of interest or excitement
96. Destructive fungi thrive in moist environments, such as those seen in wounds on the _____.
- n.* the main stem or body of a tree which its branches grow

ANSWERS: 89. jiggle, 90. tremendous, 91. instrument, 92. microorganism, 93. app's, 94. component, 95. exciting, 96. trunk

97. Inspectors noticed _____ cracks in the submarine's hull.

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

98. Let's try to _____ a bit of enthusiasm into your performance.

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

99. I advised him to _____ to his new surroundings.

v. to make fit for or change to suit a new purpose or environment

100. The _____ room casts a warm and inviting glow over everything inside.

adj. illuminated or brightened by sunlight; exposed to sunlight

101. 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

102. As an _____ he had the right to make his own decisions and live his life as he saw fit.

n. a single person or thing, as distinct from a group

103. That statement by the prime minister drew _____ international criticism.

adj. (especially of a feeling) very strong; extremely sharp or severe

104. The policy should increase the country's monetary _____.

n. the quality or attribute of being firm and steadfast

105. These are significantly more exquisite than typical _____ bracelets.

n. the power or quality of pleasing or fascinating people

ANSWERS: 97. microscopic, 98. inject, 99. adapt, 100. sunlit, 101. discovery, 102. individual, 103. intense, 104. stability, 105. charm

106. 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
107. The country has _____ oil and natural gas resources.
adj. present in great quantity
108. The perspective of his right brain _____ his consciousness.
v. to have or control a lot of power and influence over somebody or something
109. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
110. Highlight the sentences that you want to _____.
v. to remove something, especially that has been written; to wipe out digitally or magnetically recorded information
111. Because of his excellent performance, he will _____ be promoted.
adv. in a manner that cannot be avoided or prevented
112. _____ algorithms can find ways to optimize that humans do not anticipate.
adj. relating to or denoting how living things develop or change from earlier forms
113. The company holds patents on core components of _____ jet printers.
n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
114. The phenomenon is _____ at optical wavelengths.
adj. impossible or nearly impossible to see

ANSWERS: 106. nutrients, 107. abundant, 108. dominates, 109. incredibly, 110. delete, 111. inevitably, 112. Evolutionary, 113. laser, 114. invisible

115. The new car had a _____ navigation system.

adj. included as an integral part of something

116. I want to _____ my sadness into strength.

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

117. There is plenty of space to _____ everyone.

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

118. She _____ the ketchup onto her fries before taking a bite.

v. to eject or discharge with force in a fast stream or jet; to spray or sprinkle with a liquid or substance

119. _____ 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

120. I don't want to _____ for second best.

v. to reach an agreement of disagreement

121. He was a _____ leader and could persuade others to follow his ideas.

adj. having a strong and magnetic personality that attracts and influences others

122. They hope to _____ their business worldwide.

v. to increase or to make something greater in size, number, or importance

123. The _____ class was designed to give students a basic understanding of the subject.

adj. intended as an introduction or preliminary; serving as a base or starting point

ANSWERS: 115. built-in, 116. convert, 117. bury, 118. squirted, 119. Terrestrial, 120. settle, 121. charismatic, 122. expand, 123. introductory

124. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

125. You should not _____ them from the community.

v. to physically or socially separate someone or something from other people or things

126. They have been living near water since _____ times.

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

127. Can you _____ 123321 by eleven?

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

128. The _____ in a forest can be measured by collecting and weighing all living plants within a specific area.

n. the total quantity of living matter in a given unit of environment, including plants, animals, and microorganisms

129. The weather forecast includes a _____ of the high and low temperatures for the next week.

n. the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something

130. Radiation from _____ has a different wavelength.

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

ANSWERS: 124. Biomedical, 125. isolate, 126. ancient, 127. divide, 128. biomass, 129. projection, 130. sunlight

131. The golfer recorded an _____ distance.

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

132. She gazed out the window, deep in thought, as if waiting for her _____ to strike.

n. a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists

133. The _____ effect is a phenomenon that happens naturally.

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

134. We decided to order some Chinese _____ for dinner tonight.

n. a slang term for food, typically referring to a particular type of cuisine or meal, such as Chinese chow or chowder

135. He _____ the game so he could win the prize.

v. to prepare or set up something in a certain way, typically in a carefully planned or fraudulent manner; to equip with sails or masts

136. It was the _____ of a dinosaur tooth.

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

137. These gas nebulas are merely newborn galactic _____.

n. the most essential or fundamental part of something

138. During the unloading, the container box _____ a clicking sound.

v. to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 131. amazing, 132. muse, 133. greenhouse, 134. chow, 135. rigged, 136. fossil, 137. cores, 138. emits

139. There was some _____ on the window that I had to clean off.
- n.* (a Yiddish word used in English) dirt, grime, or other small and dirty particles or imperfections, especially on a surface or object
140. He has terminal _____ cancer.
- n.* either of the two organs in the chest that people and some animals use for breathing
141. The sponge _____ water well.
- v.* to take in a fluid or other substance gradually
142. Her beauty resulted from a good night's sleep rather than _____.
- n.* colored substances used on someone's face to improve or change their appearance
143. 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
144. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
145. Please _____ to the instruction manual for further assistance.
- v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
146. 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

ANSWERS: 139. schmutz, 140. lung, 141. absorbs, 142. makeup, 143. biology, 144. develop, 145. refer, 146. microscope

147. The committee has decided to _____ the president from the post.
- v.* to regard something or someone as not important and not worth considering; to terminate someone's employment
148. We cannot _____ enough raw material sources.
- v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
149. The _____ for completing the construction project is three years.
- n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
150. The outermost _____ shell determines the chemical properties of an atom.
- n.* a tiny particle with the negative electrical charge
151. The government decided to _____ funding towards education and healthcare.
- v.* to change the direction or course of something; to send in a different direction
152. During _____ farmers are incredibly busy.
- n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
153. The desalination plant turned _____ into drinking water through a complex process.
- n.* water from the sea or ocean, typically containing salt and various other dissolved minerals
154. The _____ on the food package lists the ingredients and nutritional information.
- n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

ANSWERS: 147. dismiss, 148. guarantee, 149. timescale, 150. electron, 151. redirect, 152. harvest, 153. seawater, 154. label

155. Everyone was aware of the impending _____ but was unable to prevent it.
n. death, destruction, or some other terrible situation that cannot be avoided
156. The _____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
157. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
158. She opened her _____ to protect herself from the rain.
n. a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
159. They had formed a friendship _____.
n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
160. Understanding protein folding is a vital step in deciphering the _____ code.
adj. of or relating to genes (= parts of the DNA in cells) or the science of genes
161. The allegations of corruption _____ her reputation, and she struggled to regain public trust.
v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove

ANSWERS: 155. doom, 156. tube, 157. temperatures, 158. umbrella, 159. bond, 160. genetic, 161. stained