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Cheryl Hayashi: The magnificence of spider silk | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

magnificence

n. the quality or state of being extremely good, beautiful, or deserving to be admired

synonym: grandeur, splendor, elegance

(1) incomparable **magnificence**, (2) the **magnificence** of classical music

The **magnificence** of the palace was breathtaking.

spider

n. a small, eight-legged creature that spins webs to catch insects as food; a computer program that systematically browses the World Wide Web for purposes of web indexing

synonym: arachnid, wanderer

(1) **spider** venom, (2) web **spider**

The **spider** spun an intricate web in the corner of the room.

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.

- dot** *n.* a very small circular mark, especially one that is printed
synonym : drop, dab, fleck
(1) connecting the **dots**, (2) **dot** blot method
The wallpaper had a pattern of pink **dots** on a white surface.
- basin** *n.* a natural depression or valley that is circular or oval on the surface of the earth, especially one that has water in it; a container with a bowl form that is typically used to hold food or liquids
synonym : watershed, bowl
(1) inland **basin**, (2) the **basin** of the Great Salt Lake
Many of the lakes and marshes in the **basin** are mildly salty.
- involve** *v.* to include or affect someone or something as a necessary part of something else
synonym : implicate, include, engage
(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk
The investigation **involves** several government agencies and is expected to take several months.
- alpine** *adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
synonym : mountain, highland, elevated
(1) **alpine** region, (2) **alpine** plant
We went on an exhilarating **alpine** adventure, climbing steep mountain slopes and glaciers.
- biodiversity** *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
(1) **biodiversity** conservation, (2) loss of **biodiversity**
The country was instrumental in promoting the **biodiversity** treaty.
- collaborate** *v.* to work with someone else to produce or achieve something

synonym: cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

perspective

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

synonym: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

smudge

n. a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes

synonym: blemish, mark, stain

(1) ink **smudge**, (2) lipstick **smudge**

She accidentally left a **smudge** on the newly painted wall.

landscape

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

synonym: geography, terrain, topography

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

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

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**.

crab

n. a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing

synonym : crustacean, shellfish, crusty

(1) **crab** cakes, (2) **crab** legs

I ordered a plate of fresh **crab** at the seafood restaurant.

grapple

v. to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

synonym : brawl, scuffle, wrestle

(1) **grapple** with problem, (2) **grapple** with each other

He needed to **grapple** with structural reforms to improve the company's revenue.

beetle

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

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

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

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.

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym : chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

primate

n. any mammal of the order Primates, which includes monkeys, apes, and humans

synonym : ape, monkey, lemur

(1) **primate** species, (2) **primate** sanctuary

Many scientists study **primate** behavior and intelligence.

magnitude

n. the extent, level, importance, or amount of something
synonym: size, extent, level

(1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

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.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym: hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

vertical

adj. upright or perpendicular to a horizontal surface or line

synonym: perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis

The ladder leaned against the **vertical** surface of the building.

divergence

n. the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

synonym: divergency, deviation, discrepancy

(1) **divergence** angle, (2) ideological **divergence**

The **divergence** in opinions among the team members led to a delay in completing the project.

chimpanzee

n. a small, very intelligent ape found in west and central Africa with black or brown fur

synonym: ape, chimp, pan troglodytes

(1) **chimpanzee** behavior, (2) **chimpanzee** society

Many zoos have **chimpanzee** exhibits, allowing visitors to observe these intelligent primates up close.

mere

adj. used to emphasize how insignificant or minor someone or something is

synonym: bare, minor, sheer

(1) **mere** acquaintance, (2) **mere** incident

He lost the election by **mere** votes.

silk

n. a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric

synonym: satin, taffeta, velvet

(1) **silk** road, (2) **silk** fabric

She wore a **silk** dress to the party.

essential

adj. indispensable; fundamental

synonym: critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

survival

n. the state of continuing to exist or live, frequently in the face of difficulty or danger

synonym: endurance, continuity

(1) **survival** ability, (2) **survival** food

He evaluated his chances for **survival** rather pessimistically.

reproduction

n. the process by which organisms create offspring; the production of something similar to an original work

synonym: procreation, replication, duplication

(1) **reproduction** rate, (2) **reproduction** system

The **reproduction** of the plant depends on the pollinators.

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.

impressive

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

synonym: impactful, remarkable, exceptional

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

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

spin

v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented

synonym: rotate, twirl, swirl

(1) **spin** a top, (2) **spin** thread out of cotton

The tornado is **spinning** across the countryside, destroying everything in its path.

aspect

n. one part or feature of a situation, problem, subject, etc.

synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

- trail** *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
synonym : footpath, track, course
(1) a warm **trail**, (2) follow the **trail**
The storm left a **trail** of destruction behind it.
- drag** *v.* to pull or haul with force
synonym : haul, pull, draw
(1) **drag** a chair over, (2) **drag** a team down
He **dragged** the heavy suitcase behind him as he walked.
- wrap** *v.* to cover or enclose something entirely with paper, cloth, or other material
synonym : surround, cover, bandage
(1) **wrap** a fish in foil, (2) **wrap** up a meeting
Wrap the bandage tightly around the injured arm.
- retreat** *n.* the act of moving back or withdrawing from a position or situation; a period of rest or relaxation away from work or everyday life
synonym : escape, withdrawal, vacation
(1) **retreat** deeper into their territory, (2) **retreat** in a mountain region
Many people go on a **retreat** to recharge and reconnect with themselves.
- prey** *n.* the object of a hunt; an animal hunted or trapped for eating
synonym : target, quarry, chase
(1) **prey** of beast, (2) become **prey** to terrorists
The majority of snakes swallow their **prey** whole.
- orb** *n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
synonym : globe, sphere, ball
(1) **orb** of light, (2) crystal **orb**

The planet Venus appeared as a bright **orb** in the sky during the night.

fiber

n. thread or filament used to make a vegetable tissue, mineral material, or textile

synonym : yarn, thread, wool

(1) carbon **fiber**, (2) synthetic **fiber**

We must consume dietary **fiber** to maintain good health.

frame

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

synonym : body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

radial

adj. of or relating to rays or the radii of a circle; spreading out from a central point

synonym : concentric, central, spoke-like

(1) **radial** symmetry, (2) in a **radial** direction

The **radial** design of the wheel allows for maximum strength and stability.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym : catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

spiral

n. a curve that coils around a central point and gets progressively farther away from it as it goes around

synonym : coil, helix, twist

(1) **spiral** staircase, (2) **spiral** design

The leaves of the fern were arranged in a **spiral** pattern.

composite

adj. made up of different parts, elements, or substances;
(noun) something made from two or more different substances

synonym : compound, combined, mixed

(1) **composite** materials, (2) a **composite** of different photographs

The **composite** index tracks the performance of multiple stocks in the same sector.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym : fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

sticky

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

synonym : adhesive, gluey, clingy

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

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

droplet

n. a small drop of liquid

synonym : bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

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.

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.

spigot

n. a valve or faucet used to control the flow of liquid from a container or pipe

synonym : faucet, tap, valve

(1) shut off the **spigot**, (2) open the **spigot**

The **spigot** on the outdoor faucet was leaking and needed to be fixed.

trace

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

synonym : seek, follow, depict

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

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

gland

n. a group of cells in an animal's body that produce substances needed by the body and release them through ducts or directly into the bloodstream

synonym : secretor

(1) the function of the thyroid **gland**, (2) a mammary **gland**

The adrenal **glands** produce steroids.

sac

n. a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant

synonym : bag, pouch, knapsack

(1) **sac** contents, (2) abdominal **sac**

I placed my valuables in the **sac** before heading out on my hike.

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.

stick

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

material

synonym : pierce, adhere, stay

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

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

opportune

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

synonym : suitable, timely, practical

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

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

dissect

v. to cut into pieces to study the structure of something in detail

synonym : analyze, examine, study

(1) **dissect** the data, (2) **dissect** a personality

The scientist **dissected** the frog to study its internal organs.

weave

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

synonym : braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

bounty

n. a reward offered for capturing or killing someone or for accomplishing a specific task

synonym : reward, premium, recompense

(1) cash **bounty**, (2) a **bounty** on exports

The **bounty** hunter was hired to capture the notorious criminal and bring him to justice.

translucent

adj. allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

synonym : semi-transparent, see-through

(1) **translucent** glass, (2) **translucent** skin

The sunlight shone through the **translucent** curtains, casting a warm glow in the room.

depict

v. to illustrate someone or something in a photograph

synonym: illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation

His son had accurately **depicted** the bloom.

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.

aggregate

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

synonym: total, sum, whole

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

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

flagellum

n. (plural, flagella) a long, thin, whip-like structure that some cells use for movement

synonym: cilia, whip, appendage

(1) **flagellum** structure, (2) bacterial **flagellum**

The **flagellum** of the sperm cells help it to move towards the egg.

combine

v. to join or merge to form a single thing or group

synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

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

attachment

n. a feeling of affection for someone or something
synonym : adoration, affection, extension

(1) **attachment** to a formal plan, (2) stand mixer fitted with the paddle **attachment**

I have no **attachment** to the countryside.

cement

v. make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete

synonym : adhesive, glue

(1) **cement** a close relationship, (2) **cement** blend

They are eager to **cement** a positive reputation.

adhere

v. to stick firmly; to be compatible

synonym : comply, stick, cling

(1) **adhere** to their plan, (2) **adhere** rigidly to the rules

Administrators must **adhere** to the highest standards.

substrate

n. a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act

(1) a silicon **substrate**, (2) **substrate** cell

Computational simulations help determine which **substrate** molecule is susceptible to change by specific enzymes.

acinus

n. a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances

synonym : alveolus, air sac, sacculus

(1) **acinus** of pancreas, (2) alveolar **acinus**

Each **acinus** in the salivary gland produces and secretes saliva.

ampulla

n. a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or

parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system

synonym : bulb, sac, vesicle

(1) **ampulla** of vater, (2) **ampulla** of the fallopian tube

The physician carefully inserted a catheter into the patient's **ampulla** to drain excess fluid.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

entirely

adv. completely

synonym : completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame

Later, his claim was found to be **entirely** false.

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.

encode

v. to convert information into a code or format suitable for storage or transmission

synonym : transcribe, convert

(1) **encode** data, (2) **encode** information

The software can **encode** and decode encrypted messages.

presumably

adv. believed to be true or likely based on the available evidence, or supposed to be the case without definite

proof

synonym: likely, seemingly, supposedly

(1) **presumably** accurate, (2) **presumably** refuse the offer
The witness's testimony was **presumably** based on what he had seen and heard.

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.

duplicate

v. to make or be an exact copy of something; to reproduce something

synonym: copy, replicate, reproduce

(1) **duplicate** my efforts, (2) **duplicate** his action

I need to **duplicate** this document before I send it.

diverge

v. to move or extend in different directions from a common point; to branch off or deviate from a path or course

synonym: separate, split, part

(1) **diverge** from tradition, (2) **diverge** from the main topic

As tectonic plates **diverge**, new oceanic crust is formed along mid-ocean ridges.

flavor

n. the taste sensation produced by a substance in the mouth

synonym: taste, savor, essence

(1) a delicate **flavor**, (2) **flavor** enhancer

The **flavor** of the coffee was rich and full-bodied.

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest

mountain in the world.

outlandish

adj. bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal

synonym : eccentric, bizarre, strange

(1) **outlandish** proposal, (2) **outlandish** behavior

The **outlandish** outfit drew the attention of everyone in the room.

repetition

n. the act of doing or saying something many times

synonym : duplication, iteration, recurrence

(1) **repetition** of the word, (2) habitual **repetition**

Repetition is the mother of all learning.

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.

glycine

n. an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms

synonym : glycogenic amino acid

(1) **glycine** supplement, (2) **glycine** metabolism

The protein contained a high **glycine** content, making it vital for specific metabolic reactions.

phenylalanine

n. an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

synonym : amino acid, Phe

(1) **phenylalanine** deficiency, (2) **phenylalanine** hydroxylase

Certain soft drinks and sugar-free products have warning label about their **phenylalanine** content.

widow

n. a woman whose spouse has died and who has not remarried

synonym : bereaved

(1) **widow** pension, (2) a war **widow**

She became a **widow** after her husband passed away.

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.

abbreviation

n. a shortened form of a word or phrase used to represent the whole, typically for ease of use

synonym : short form, acronym, initialism

(1) currency **abbreviation**, (2) **abbreviation** of the full name

In the medical field, service **abbreviation** refers to medical procedures, diagnoses, and medications.

motif

n. a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music

synonym : theme, pattern, design

(1) animal **motif**, (2) the **motif** of a music piece

The repeating floral **motif** in the wallpaper added a touch of elegance to the room.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

dramatically

adv. in a very impressive manner

synonym : greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

diversification

n. the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability

synonym : variety, heterogeneity, assortment

(1) business **diversification**, (2) **diversification** of products

The company's **diversification** strategy helped them weather the economic downturn.

serine

n. a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins

synonym : amino acid

(1) **serine** protease, (2) receptor **serine**

The high **serine** levels in the blood were an indicator of liver disease.

purple

adj. of a color intermediate between red and blue

synonym : violet

(1) deep **purple**, (2) **purple** sweet potatoes

The plant has a stunning **purple** blossom.

substantial

adj. fairly large in size, value, or importance

synonym: significant, notable, actual

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

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

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym: connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym: machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

convenient

adj. useful, helpful, or quick to do

synonym: timely, fortunate, suitable

(1) **convenient** way, (2) **convenient** location

The airport offers five **convenient** access routes.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym: lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a **laboratory**.

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**.

quants

n. quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

synonym : quantitative analysts, number crunchers, data scientists

(1) the team of **quants**, (2) industry **quants**

Many financial **quants** work in investment banks, using complex mathematical models to analyze financial data.

tensile

adj. relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension

synonym : flexible, pliable, ductile

(1) **tensile** deformation, (2) **tensile** properties

The engineer tested the **tensile** strength of the metal to determine its durability.

tug

v. to pull something quickly and hard, often several times

synonym : draw, jerk, pull

(1) **tug** a rope, (2) **tug** at his hand

This movie **tugs** at everyone's heartstrings.

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**.

curve

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym : bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

specifically

adv. only associated with or meant for one thing

synonym : especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically** American customers

This ad campaign is aimed **specifically** at young women.

axis

n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

synonym : central, core, pole

(1) vertical **axis**, (2) a coordinate **axis**

The earth's **axis** of rotation is tilted 66.5 degrees to the ecliptic plane.

maximum

adj. the largest or greatest amount or value attainable or attained

synonym : peak, top, highest

(1) **maximum** limit, (2) the **maximum** speed

The **maximum** temperature recorded this summer was higher than average.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym : fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

extended

adj. longer than usual or anticipated

synonym : extensive, prolonged, elongated

(1) **extended** vacation, (2) **extended** payment

The **extended** airport runways may accommodate larger jets.

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym : lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of kilometers.

vary

v. to become different in terms of size, shape, etc.

synonym : alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

strength

n. the quality or state of being physically, or sometimes mentally, strong

synonym : resilience, power, muscles

(1) **strength** of the economy, (2) muscular **strength**

Health and **strength** are, above all, gold.

extensible

adj. capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened

synonym : flexible, expandable, adaptable

(1) **extensible** markup language, (2) **extensible** framework

The software has an **extensible** design, allowing for easy customization and future updates.

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.

insect

n. any small creature that has six legs and a body divided into three sections

(1) **insect** antenna, (2) **insect** biology

These **insects** are more prevalent above a certain latitude.

trampoline

n. a strong fabric sheet attached by springs to a frame, used for bouncing on

synonym: rebounder, bouncer, springboard

(1) **trampoline** park, (2) **trampoline** jump

I love jumping on the **trampoline** in my backyard.

bounce

v. to cause to move up or away after hitting a surface; to spring back

synonym: bound, leap, spring

(1) **bounce** across the floor, (2) **bounce** back from failure

They will **bounce** between various emotional states.

intercept

v. to stop and catch someone or something to prevent them from continuing to a destination

synonym: ambush, block, prevent

(1) **intercept** an enemy force, (2) **intercept** X rays

It is illegal to **intercept** police radio.

kit

n. a set of tools, supplies, or equipment for a particular purpose

synonym: set, package, bundle

(1) survival **kit**, (2) a first-aid **kit**

I bought a new tool **kit** for my home repair projects.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

largely

adv. virtually entirely; to a large degree

synonym: mainly, chiefly, broadly

(1) **largely** accepted, (2) **largely** mitigate the issue
Nevada is **largely** a desert state.

unexplored

adj. not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
synonym : uncharted, undiscovered, untapped

(1) **unexplored** ideas, (2) **unexplored** cave

There are many **unexplored** regions of the ocean that scientists hope to study soon.

comparison

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

synonym : equivalence, analogy, contrast

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

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

hypothesize

v. to form or present a theory or explanation without sufficient evidence; to speculate

synonym : speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

phylogenetics

n. the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics

synonym : evolutionary genetics, cladistics

(1) biogeographical **phylogenetics**, (2) **phylogenetics** tree

Her research focuses on molecular **phylogenetics**, which uses gene sequences to study evolutionary relationships.

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.

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.

relation

n. the way two persons or groups of people feel and act toward one another

synonym: association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

arrow

n. a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

synonym: shaft, dart, projectile

(1) **arrow** pointing, (2) **arrow** diagram

The archer aimed his **arrow** carefully at the target.

vast

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

synonym: expansive, extended, boundless

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

A **vast** audience viewed the broadcast.

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym: artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool

blades.

survey

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

synonym : study, examination, poll

(1) a comprehensive **survey**, (2) recent **survey**

That **survey** shows that people are accepting the tax increase to some extent.

spit

v. to eject saliva or other liquid from the mouth

synonym : expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

lurk

v. to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

synonym : hide, creep, stalk

(1) **lurked** behind the words, (2) **lurk** in the darkness

In the city, the risk of traffic accidents **lurks** at every corner.

immobilize

v. to render someone or something unable to move or function normally; to restrain, inhibit, or stop

synonym : incapacitate, paralyze, disable

(1) **immobilize** the city, (2) **immobilize** our opponent

The paramedics had to **immobilize** the accident victim to prevent further injury during transport to the hospital.

spray

n. a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage

synonym : mist, aerosol, atomizer

(1) a **spray** of mist, (2) an insect **spray**

The artist used a **spray** paint can to create a graffiti mural on the wall.

venom

n. a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging

synonym : poison, toxin, hating

(1) the **venom** of a lizard, (2) injected **venom**

The snake's **venom** is highly toxic and can be fatal to humans.

hunt

v. to go after and try to catch wild animals to kill them for food, sport, or profit

synonym : chase, pursuit, quest

(1) **hunt** a job, (2) **hunt** after knowledge

Hounds **hunt** their prey by using their keen scent.

string

n. long, thin material used for tying things together, composed of several twisted threads

synonym : line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

unexpected

adj. not anticipated or regarded as likely to happen

synonym : surprising, unanticipated, incredible

(1) an **unexpected** visitor, (2) some **unexpected** events

The **unexpected** rainstorm caused the collapse of the corral.

prospect

n. the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals

synonym : hope, possibility, expectation

(1) **prospect** for gold, (2) job **prospects**

The **prospect** of starting a new business can be both exciting and daunting.

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.

worthwhile

adj. having value or benefit; sufficiently important or beneficial to be worthy of time or effort; deserving of attention or consideration

synonym: valuable, rewarding, significant

(1) **worthwhile** investment, (2) **worthwhile** endeavor

Volunteering for a **worthwhile** cause is important for building a sense of community.

constraint

n. a limit or restriction on something, such as an action, behavior, or thought

synonym: limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time **constraints**

The budget **constraint** forced them to make difficult decisions.

imaginary

adj. existing only in someone's mind

synonym: fictional, ideal, fantastical

(1) **imaginary** number, (2) **imaginary** pregnancy

Little children tend to have **imaginary** friends.

nylon

n. a synthetic material used for making clothes, ropes, brushes, etc.

(1) **nylon** cloth, (2) **nylon** thread

We supply the military with durable vests made of **nylon**.

domesticate

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

synonym: tame, naturalize, cultivate

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

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

silkworm

n. the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk

synonym : silk spinner

(1) **silkworm** larvae, (2) **silkworm** breeding

The **silkworm's** cocoon contains the silk fibers used to make luxurious fabrics.

wool

n. a textile fiber obtained from the fleece of sheep or certain other animals, used for making clothing and other fabric items

synonym : fleece, cashmere

(1) **wool** sweater, (2) **wool** fibers

I love wearing **wool** socks during the winter to keep my feet warm.

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.

surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym : excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

combination

n. a collection of things that have been combined; an assemblage of separate parts or qualities

synonym : blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number

The **combination** to the safe was a secret.

attract

v. to draw or entice someone or something towards them through the qualities they have, especially positive ones

synonym: lure, entice, draw in

(1) **attract** attention, (2) **attract** customers

The government is eager to **attract** international investment.

biomimetics

n. the study of natural systems and structures to create new technologies or improve existing ones

(1) **biomimetics** research, (2) **biomimetics** technology

The aircraft's design was inspired by **biomimetics** principles, which allowed for improved aerodynamics and reduced fuel consumption.

elicit

v. to obtain information or a reaction from someone, usually with difficulty

synonym: bring out, obtain, evoke

(1) **elicit** a confession, (2) **elicit** a solution

Have you **elicited** a response from them yet?

immune

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

synonym: resistant, unsusceptible, unaffected

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

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

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.

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.

tendon

n. a strong, fibrous cord of tissue that connects muscle to bone

synonym : tissue, sinew, ligament

(1) **tendon** grafting, (2) **tendon** collagen

Tendon injuries are common among athletes.

regrow

v. to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation

synonym : regenerate

(1) **regrow** hair, (2) **regrow** vegetation

Lizards can **regrow** their tails if they are cut off.

nervous

adj. worried and anxious about something; relating to the nerves

synonym : neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous**

He suffers from **nervous** breakdowns.

scaffold

n. a temporary platform or structure used to support workers and materials during construction or maintenance work

synonym : platform, staging, framework

(1) **scaffold** construction, (2) go to the **scaffold**

The construction workers set up the **scaffold** to reach the top of the building.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym : structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

ballistic

adj. relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control

synonym: furious, explosive, enraged

(1) **ballistic** missile, (2) **ballistic** vest

The boss went **ballistic** when he found out we missed the deadline.

incorporate

v. to include something as a part of a larger entity

synonym: contain, integrate, amalgamate

(1) **incorporate** the current trends, (2) **incorporate** technology into daily life

We will attempt to **incorporate** some of your suggestions into our future strategy.

equip

v. to provide a person or a place with the things that are needed for a particular purpose or activity

synonym: prepare, furnish, provide

(1) **equip** an army, (2) **equip** our children with some special skills

The construction company **equipped** the building with an earthquake-resistant device.

lightweight

adj. composed of thinner and lighter material than average; not severe or impressive

(1) **lightweight** aircraft, (2) **lightweight** structure

Powder coating protects the **lightweight** aluminum alloy components.

flexible

adj. able to change or be changed to suit new conditions or situations; able to bend easily

synonym: adaptable, elastic, pliable

(1) **flexible** schedules, (2) a **flexible** wire

You can be more **flexible** and creative in your approach.

addition

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

synonym : accumulation, expansion, addendum

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

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

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

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.

pause

v. to take a short break from talking or doing something before continuing

synonym : halt, break, intermit

(1) **pause** a moment, (2) **pause** for a reaction

The man **paused** before opening the door.

terrific

adj. causing terror or fear; extremely great or intense; very good or excellent

synonym : fantastic, great, excellent

(1) absolutely **terrific**, (2) at a **terrific** speed

The view from the top of the mountain was **terrific**, with sweeping vistas of the valley below.

Session 2: Spelling

1. sy_____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
2. business div_____ion *n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability
3. dr_____t size *n.* a small drop of liquid
4. stand mixer fitted with the paddle att_____nt *n.* a feeling of affection for someone or something
5. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
6. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
7. co_____te materials *adj.* made up of different parts, elements, or substances; (noun) something made from two or more different substances
8. absolutely te_____ic *adj.* causing terror or fear; extremely great or intense; very good or excellent
9. se___e protease *n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins
10. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 1. synthetic, 2. diversification, 3. droplet, 4. attachment, 5. dramatically, 6. variation, 7. composite, 8. terrific, 9. serine, 10. carbon

- | | | |
|-----------------------------------|------|--|
| 11. v__y according to the age | v. | to become different in terms of size, shape, etc. |
| 12. an____or language | n. | a person from whom one is descended; a forefather |
| 13. a private ind_____al | n. | a single person or thing, as distinct from a group |
| 14. ra___l symmetry | adj. | of or relating to rays or the radii of a circle; spreading out from a central point |
| 15. di_____e from tradition | v. | to move or extend in different directions from a common point; to branch off or deviate from a path or course |
| 16. an op_____ne remark | adj. | suitable or happening at a time that is suitable or convenient for a particular purpose |
| 17. a star of the first ma_____de | n. | the extent, level, importance, or amount of something |
| 18. co_____e augmented reality | v. | to join or merge to form a single thing or group |
| 19. designed spe_____lly for men | adv. | only associated with or meant for one thing |
| 20. cutting-edge bio_____al | adj. | relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare |
| 21. st_____th of the economy | n. | the quality or state of being physically, or sometimes mentally, strong |
| 22. s__n thread out of cotton | v. | to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented |

ANSWERS: 11. vary, 12. ancestor, 13. individual, 14. radial, 15. diverge, 16. opportune, 17. magnitude, 18. combine, 19. specifically, 20. biomedical, 21. strength, 22. spin

23. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
24. a warm tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
25. gl_____e metabolism *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
26. in___t antenna *n.* any small creature that has six legs and a body divided into three sections
27. he was en_____ly to blame *adv.* completely
28. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
29. dr_____t formation *n.* a small drop of liquid
30. fl_____um structure *n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement
31. im_____ry number *adj.* existing only in someone's mind
32. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
33. w__l fibers *n.* a textile fiber obtained from the fleece of sheep or certain other animals, used for making clothing and other fabric items

ANSWERS: 23. impressive, 24. trail, 25. glycine, 26. insect, 27. entirely, 28. stretch, 29. droplet, 30. flagellum, 31. imaginary, 32. stick, 33. wool

34. ex____ng news *adj.* causing a lot of interest or excitement
35. 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
36. abb_____ion of the full name *n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use
37. a peaceful la_____pe *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
38. data ag_____te *n.* a collection or sum of different things often used to describe a total or combination of items
39. ad___e to their plan *v.* to stick firmly; to be compatible
40. phe_____ine deficiency *n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)
41. 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
42. c__b legs *n.* a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing

ANSWERS: 34. exciting, 35. diversity, 36. abbreviation, 37. landscape, 38. aggregate, 39. adhere, 40. phenylalanine, 41. strain, 42. crab

43. gr____e with problem *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
44. une_____ed ideas *adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
45. en___e information *v.* to convert information into a code or format suitable for storage or transmission
46. we___e on a loom *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
47. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
48. bacterial fl_____um *n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement
49. fl_____le schedules *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
50. con_____nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
51. bo___e back from failure *v.* to cause to move up or away after hitting a surface; to spring back
52. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

ANSWERS: 43. grapple, 44. unexplored, 45. encode, 46. weave, 47. mechanical, 48. flagellum, 49. flexible, 50. constraint, 51. bounce, 52. relate

53. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
54. survival k_t *n.* a set of tools, supplies, or equipment for a particular purpose
55. as__ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
56. local ge____y *n.* a science that deals with the history of the earth as recorded in rocks
57. am____a of vater *n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system
58. nontechnical as__ts of the job *n.* one part or feature of a situation, problem, subject, etc.
59. habitual rep_____on *n.* the act of doing or saying something many times
60. ny__n cloth *n.* a synthetic material used for making clothes, ropes, brushes, etc.
61. ext_____le markup language *adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened
62. 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
63. tense piano st____gs *n.* long, thin material used for tying things together, composed of several twisted threads

ANSWERS: 53. biology, 54. kit, 55. aspect, 56. geology, 57. ampulla, 58. aspect, 59. repetition, 60. nylon, 61. extensible, 62. protein, 63. string

64. phy_____ics tree *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
65. al___e region *adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
66. phe_____ine hydroxylase *n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)
67. follow the tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
68. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
69. bio_____cs research *n.* the study of natural systems and structures to create new technologies or improve existing ones
70. loss of bio_____ity *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
71. job pr_____cts *n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals

ANSWERS: 64. phylogenetics, 65. alpine, 66. phenylalanine, 67. trail, 68. genetic, 69. biomimetics, 70. biodiversity, 71. prospect

72. receptor se___e *n.* a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins
73. pre_____ly refuse the offer *adv.* believed to be true or likely based on the available evidence, or supposed to be the case without definite proof
74. du_____te his action *v.* to make or be an exact copy of something; to reproduce something
75. 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
76. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
77. m__e acquaintance *adj.* used to emphasize how insignificant or minor someone or something is
78. fas_____ng story *adj.* extremely interesting
79. d_t blot method *n.* a very small circular mark, especially one that is printed
80. carbon fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
81. the mo__f of a music piece *n.* a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
82. ny__n thread *n.* a synthetic material used for making clothes, ropes, brushes, etc.

ANSWERS: 72. serine, 73. presumably, 74. duplicate, 75. tube, 76. indicate, 77. mere, 78. fascinating, 79. dot, 80. fiber, 81. motif, 82. nylon

83. s__n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
84. 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
85. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
86. a be___e larva *n.* an insect having a hard shell-like back covering its wings
87. re___e a story *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
88. m__e incident *adj.* used to emphasize how insignificant or minor someone or something is
89. une_____ed cave *adj.* not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered
90. o_b of light *n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
91. cash bo___y *n.* a reward offered for capturing or killing someone or for accomplishing a specific task

ANSWERS: 83. spin, 84. acid, 85. graph, 86. beetle, 87. relate, 88. mere, 89. unexplored, 90. orb, 91. bounty

92. ease of com_____on *n.* the consideration or examination of the similarities between two or more people or things
93. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
94. el___t a confession *v.* to obtain information or a reaction from someone, usually with difficulty
95. in___t biology *n.* any small creature that has six legs and a body divided into three sections
96. 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
97. in_____pt an enemy force *v.* to stop and catch someone or something to prevent them from continuing to a destination
98. pa__e for a reaction *v.* to take a short break from talking or doing something before continuing
99. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
100. la_____y mitigate the issue *adv.* virtually entirely; to a large degree
101. currency abb_____ion *n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use
102. s_c contents *n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant

ANSWERS: 92. comparison, 93. molecule, 94. elicit, 95. insect, 96. strain, 97. intercept, 98. pause, 99. construct, 100. largely, 101. abbreviation, 102. sac

103. el___t a solution *v.* to obtain information or a reaction from someone, usually with difficulty
104. at_____t attention *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
105. es_____al amino acid *adj.* indispensable; fundamental
106. c__b cakes *n.* a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing
107. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
108. in_____pt X rays *v.* to stop and catch someone or something to prevent them from continuing to a destination
109. we__e a story *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
110. completely fas_____ng to me *adj.* extremely interesting
111. earliest human an_____or *n.* a person from whom one is descended; a forefather
112. w__p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material
113. 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

ANSWERS: 103. elicit, 104. attract, 105. essential, 106. crab, 107. addition, 108. intercept, 109. weave, 110. fascinating, 111. ancestor, 112. wrap, 113. acid

114. di____e from the main topic *v.* to move or extend in different directions from a common point; to branch off or deviate from a path or course
115. re____on of inclusion *n.* the way two persons or groups of people feel and act toward one another
116. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
117. ca____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
118. become p__y to terrorists *n.* the object of a hunt; an animal hunted or trapped for eating
119. an ag_____te of people *n.* a collection or sum of different things often used to describe a total or combination of items
120. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
121. de___t a scene *v.* to illustrate someone or something in a photograph
122. 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
123. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
124. te___n grafting *n.* a strong, fibrous cord of tissue that connects muscle to bone

ANSWERS: 114. diverge, 115. relation, 116. curve, 117. capture, 118. prey, 119. aggregate, 120. addition, 121. depict, 122. protein, 123. biology, 124. tendon

125. imm_____ze the city *v.* to render someone or something unable to move or function normally; to restrain, inhibit, or stop
126. ce___t blend *v.* make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete
127. injected ve___m *n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
128. biogeographical phy_____ics *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
129. s___k fabric *n.* a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric
130. wor_____le investment *adj.* having value or benefit; sufficiently important or beneficial to be worthy of time or effort; deserving of attention or consideration
131. gl_____e supplement *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms

ANSWERS: 125. immobilize, 126. cement, 127. venom, 128. phylogenetics, 129. silk, 130. worthwhile, 131. glycine

132. ce___t a close relationship *v.* make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete
133. am__o compound *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
134. ba_____ic vest *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
135. en_____ly satisfied with the meal *adv.* completely
136. s__t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
137. bo___e across the floor *v.* to cause to move up or away after hitting a surface; to spring back
138. su_____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
139. ar__w diagram *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
140. a fl_____le wire *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
141. be___e brows *n.* an insect having a hard shell-like back covering its wings
142. 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

ANSWERS: 132. cement, 133. amino, 134. ballistic, 135. entirely, 136. spit, 137. bounce, 138. surpass, 139. arrow, 140. flexible, 141. beetle, 142. fossil

143. col_____te with the police *v.* to work with someone else to produce or achieve something
144. eq__p an army *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
145. am__o acid *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
146. the ma_____de of the disaster *n.* the extent, level, importance, or amount of something
147. have a sub_____al meal *adj.* fairly large in size, value, or importance
148. the ma_____m speed *adj.* the largest or greatest amount or value attainable or attained
149. imm_____ze our opponent *v.* to render someone or something unable to move or function normally; to restrain, inhibit, or stop
150. es_____al commodities of life *adj.* indispensable; fundamental
151. get ne_____s *adj.* worried and anxious about something; relating to the nerves
152. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
153. sp___l design *n.* a curve that coils around a central point and gets progressively farther away from it as it goes around
154. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various

ANSWERS: 143. collaborate, 144. equip, 145. amino, 146. magnitude, 147. substantial, 148. maximum, 149. immobilize, 150. essential, 151. nervous, 152. sequence, 153. spiral, 154. diverse

155. shut off the sp___t *n.* a valve or faucet used to control the flow of liquid from a container or pipe
156. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
157. gr_____e with each other *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
158. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
159. alveolar ac___s *n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances
160. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
161. tra_____ne jump *n.* a strong fabric sheet attached by springs to a frame, used for bouncing on
162. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
163. la_____pe painting *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 155. spigot, 156. molecule, 157. grapple, 158. involve, 159. acinus, 160. tissue, 161. trampoline, 162. combination, 163. landscape

164. si_____rm breeding *n.* the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk
165. im_____ry pregnancy *adj.* existing only in someone's mind
166. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
167. 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
168. te____n collagen *n.* a strong, fibrous cord of tissue that connects muscle to bone
169. tra_____nt skin *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
170. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
171. div_____ion of products *n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability
172. la_____y accepted *adv.* virtually entirely; to a large degree
173. ideological div_____ce *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal

ANSWERS: 164. silkworm, 165. imaginary, 166. evolutionary, 167. timescale, 168. tendon, 169. translucent, 170. mechanical, 171. diversification, 172. largely, 173. divergence

174. an une_____ed visitor *adj.* not anticipated or regarded as likely to happen
175. muscular st_____th *n.* the quality or state of being physically, or sometimes mentally, strong
176. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
177. in a ra____l direction *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
178. the mag_____nce of classical music *n.* the quality or state of being extremely good, beautiful, or deserving to be admired
179. tr__e back to medieval times *v.* to find or discover someone or something that was lost
180. bio_____ity conservation *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
181. pr_____e species *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
182. retie the st____g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
183. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
184. wor_____le endeavor *adj.* having value or benefit; sufficiently important or beneficial to be worthy of time or effort; deserving of attention or consideration

ANSWERS: 174. unexpected, 175. strength, 176. opportune, 177. radial, 178. magnificence, 179. trace, 180. biodiversity, 181. primate, 182. string, 183. capture, 184. worthwhile

185. di____e backgrounds *adj.* including numerous categories of individuals or entities; various
186. gene va_____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
187. a co_____te of different photographs *adj.* made up of different parts, elements, or substances; (noun) something made from two or more different substances
188. bio_____cs technology *n.* the study of natural systems and structures to create new technologies or improve existing ones
189. tr__e a telephone call *v.* to find or discover someone or something that was lost
190. w__p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
191. the ve__m of a lizard *n.* a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
192. a comprehensive su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
193. deep pu___e *adj.* of a color intermediate between red and blue
194. inc_____te technology into daily life *v.* to include something as a part of a larger entity
195. rep_____ion rate *n.* the process by which organisms create offspring; the production of something similar to an original work

ANSWERS: 185. diverse, 186. variation, 187. composite, 188. biomimetics, 189. trace, 190. wrap, 191. venom, 192. survey, 193. purple, 194. incorporate, 195. reproduction

196. ind_____al freedom *n.* a single person or thing, as distinct from a group
197. l__k in the darkness *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
198. re___w hair *v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
199. ex_____ng football player *adj.* causing a lot of interest or excitement
200. fl___r enhancer *n.* the taste sensation produced by a substance in the mouth
201. pre-Christian an_____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
202. out_____sh proposal *adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
203. de___t a feeling of isolation *v.* to illustrate someone or something in a photograph
204. pre_____ly accurate *adv.* believed to be true or likely based on the available evidence, or supposed to be the case without definite proof
205. chi_____ee behavior *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
206. ab___b a shock *v.* to take in a fluid or other substance gradually

ANSWERS: 196. individual, 197. lurk, 198. regrow, 199. exciting, 200. flavor, 201. ancient, 202. outlandish, 203. depict, 204. presumably, 205. chimpanzee, 206. absorb

207. sp___l staircase *n.* a curve that coils around a central point and gets progressively farther away from it as it goes around
208. rep_____ion system *n.* the process by which organisms create offspring; the production of something similar to an original work
209. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
210. lipstick sm___e *n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
211. st___h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
212. industry qu___s *n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions
213. at a te_____ic speed *adj.* causing terror or fear; extremely great or intense; very good or excellent
214. pr_____ct for gold *n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals

ANSWERS: 207. spiral, 208. reproduction, 209. perspective, 210. smudge, 211. stretch, 212. quants, 213. terrific, 214. prospect

215. connecting the d_ts *n.* a very small circular mark, especially one that is printed
216. te____e deformation *adj.* relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
217. wi__w pension *n.* a woman whose spouse has died and who has not remarried
218. ve____al takeoff *adj.* upright or perpendicular to a horizontal surface or line
219. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
220. key co_____nt *n.* one of several parts that combines with others to form something bigger
221. in____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
222. open the sp____t *n.* a valve or faucet used to control the flow of liquid from a container or pipe
223. rep_____on of the word *n.* the act of doing or saying something many times
224. co____e chemically with another substance *v.* to join or merge to form a single thing or group
225. con_____nt location *adj.* useful, helpful, or quick to do
226. re____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
227. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring

ANSWERS: 215. dot, 216. tensile, 217. widow, 218. vertical, 219. environment, 220. component, 221. involve, 222. spigot, 223. repetition, 224. combine, 225. convenient, 226. relation, 227. synthetic

228. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
229. v__y directly with the price *v.* to become different in terms of size, shape, etc.
230. web sp___r *n.* a small, eight-legged creature that spins webs to catch insects as food; a computer program that systematically browses the World Wide Web for purposes of web indexing
231. chi_____ee society *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
232. t_g at his hand *v.* to pull something quickly and hard, often several times
233. the fr__e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
234. a delicate fl___r *n.* the taste sensation produced by a substance in the mouth
235. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
236. am_____a of the fallopian tube *n.* a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system

ANSWERS: 228. feat, 229. vary, 230. spider, 231. chimpanzee, 232. tug, 233. frame, 234. flavor, 235. graph, 236. ampulla

237. in_____ct directly with customers *v.* to communicate or react with somebody
238. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
239. s__k road *n.* a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric
240. an_____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
241. ma_____m limit *adj.* the largest or greatest amount or value attainable or attained
242. pr_____e sanctuary *n.* any mammal of the order Primates, which includes monkeys, apes, and humans
243. du_____te my efforts *v.* to make or be an exact copy of something; to reproduce something
244. ink sm_____e *n.* a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
245. h__t after knowledge *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
246. some une_____ed events *adj.* not anticipated or regarded as likely to happen
247. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 237. interact, 238. geology, 239. silk, 240. ancient, 241. maximum, 242. primate, 243. duplicate, 244. smudge, 245. hunt, 246. unexpected, 247. combination

248. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
249. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
250. h__t a job *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
251. st___y situation *adj.* made of or covered with an adhesive substance; hot or warm and humid
252. con_____nt way *adj.* useful, helpful, or quick to do
253. en___e data *v.* to convert information into a code or format suitable for storage or transmission
254. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
255. d__g a team down *v.* to pull or haul with force
256. su_____te cell *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
257. a first-aid k__t *n.* a set of tools, supplies, or equipment for a particular purpose
258. he confessed dra_____lly *adv.* in a very impressive manner
259. a picture fr___e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

ANSWERS: 248. evolutionary, 249. tissue, 250. hunt, 251. sticky, 252. convenient, 253. encode, 254. genetic, 255. drag, 256. substrate, 257. kit, 258. dramatically, 259. frame

260. tra_____nt glass *adj.* allowing light to pass through but scattering it so that objects behind it cannot be seen clearly; partially transparent
261. ac___s of pancreas *n.* a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances
262. w__l sweater *n.* a textile fiber obtained from the fleece of sheep or certain other animals, used for making clothing and other fabric items
263. an imp_____ve array of facts *adj.* arousing admiration due to size, quality, or skill
264. re___w vegetation *v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
265. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
266. inland ba__n *n.* a natural depression or valley that is circular or oval on the surface of the earth, especially one that has water in it; a container with a bowl form that is typically used to hold food or liquids
267. s__t a bullet *v.* to eject saliva or other liquid from the mouth
268. v__t majority *adj.* enormous in size, number, amount, or quantity

ANSWERS: 260. translucent, 261. acinus, 262. wool, 263. impressive, 264. regrow, 265. nervous, 266. basin, 267. spit, 268. vast

269. out_____sh behavior *adj.* bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
270. abdominal s_c *n.* a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
271. easy to dom_____te *v.* to take control of animals or plants to provide food, power, or company
272. 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
273. ba_____ic missile *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
274. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
275. te_____e properties *adj.* relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
276. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
277. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

ANSWERS: 269. outlandish, 270. sac, 271. domesticate, 272. terrestrial, 273. ballistic, 274. environment, 275. tensile, 276. fossil, 277. curve

278. recent su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
279. di_____t the data *v.* to cut into pieces to study the structure of something in detail
280. ext_____le framework *adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened
281. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
282. 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
283. 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
284. lig_____ht aircraft *adj.* composed of thinner and lighter material than average; not severe or impressive
285. al___e plant *adj.* relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain
286. a sp___y of mist *n.* a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage

ANSWERS: 278. survey, 279. dissect, 280. extensible, 281. immune, 282. rev, 283. diversity, 284. lightweight, 285. alpine, 286. spray

287. d__g a chair over *v.* to pull or haul with force
288. a silicon su_____te *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
289. sc_____ld construction *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
290. vertical a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
291. tra_____ne park *n.* a strong fabric sheet attached by springs to a frame, used for bouncing on
292. lig_____ht structure *adj.* composed of thinner and lighter material than average; not severe or impressive
293. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
294. go to the sc_____ld *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
295. a bo___y on exports *n.* a reward offered for capturing or killing someone or for accomplishing a specific task
296. ex_____ed payment *adj.* longer than usual or anticipated

ANSWERS: 287. drag, 288. substrate, 289. scaffold, 290. axis, 291. trampoline, 292. lightweight, 293. perspective, 294. scaffold, 295. bounty, 296. extended

297. the team of qu___s *n.* quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions
298. st___y weather *adj.* made of or covered with an adhesive substance; hot or warm and humid
299. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
300. a war wi__w *n.* a woman whose spouse has died and who has not remarried
301. sp___r venom *n.* a small, eight-legged creature that spins webs to catch insects as food; a computer program that systematically browses the World Wide Web for purposes of web indexing
302. dom_____te the plant *v.* to take control of animals or plants to provide food, power, or company
303. ar__w pointing *n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
304. col_____te on a press release *v.* to work with someone else to produce or achieve something
305. in_____ct with one another *v.* to communicate or react with somebody
306. incomparable mag_____nce *n.* the quality or state of being extremely good, beautiful, or deserving to be admired
307. att_____nt to a formal plan *n.* a feeling of affection for someone or something

ANSWERS: 297. quants, 298. sticky, 299. laboratory, 300. widow, 301. spider, 302. domesticate, 303. arrow, 304. collaborate, 305. interact, 306. magnificence, 307. attachment

308. hyp_____ze as to outcomes *v.* to form or present a theory or explanation without sufficient evidence; to speculate
309. a sub_____al amount of capital *adj.* fairly large in size, value, or importance
310. p__y of beast *n.* the object of a hunt; an animal hunted or trapped for eating
311. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
312. carbon fi_____nt *n.* a thin wire or thread, especially one used to produce light in an electric bulb
313. animal mo__f *n.* a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
314. I__ked behind the words *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
315. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
316. div_____ce angle *n.* the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal
317. pa__e a moment *v.* to take a short break from talking or doing something before continuing

ANSWERS: 308. hypothesize, 309. substantial, 310. prey, 311. construct, 312. filament, 313. motif, 314. lurk, 315. biomedical, 316. divergence, 317. pause

318. 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
319. 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
320. re_____t in a mountain region *n.* the act of moving back or withdrawing from a position or situation; a period of rest or relaxation away from work or everyday life
321. ab___b energy *v.* to take in a fluid or other substance gradually
322. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
323. ad___e rigidly to the rules *v.* to stick firmly; to be compatible
324. a mammary gl__d *n.* a group of cells in an animal's body that produce substances needed by the body and release them through ducts or directly into the bloodstream
325. si_____rm larvae *n.* the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk
326. su_____al ability *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger

ANSWERS: 318. terrestrial, 319. rev, 320. retreat, 321. absorb, 322. component, 323. adhere, 324. gland, 325. silkworm, 326. survival

327. ex____ed vacation *adj.* longer than usual or anticipated
328. the ba__n of the Great Salt Lake *n.* a natural depression or valley that is circular or oval on the surface of the earth, especially one that has water in it; a container with a bowl form that is typically used to hold food or liquids
329. synthetic fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
330. strict time con_____nts *n.* a limit or restriction on something, such as an action, behavior, or thought
331. the function of the thyroid gl__d *n.* a group of cells in an animal's body that produce substances needed by the body and release them through ducts or directly into the bloodstream
332. su_____s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
333. an insect sp__y *n.* a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage
334. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
335. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

ANSWERS: 327. extended, 328. basin, 329. fiber, 330. constraint, 331. gland, 332. surpass, 333. spray, 334. sequence, 335. indicate

336. t_g a rope *v.* to pull something quickly and hard, often several times
337. 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
338. fi_____nt lamp *n.* a thin wire or thread, especially one used to produce light in an electric bulb
339. a coordinate a__s *n.* a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance
340. crystal o_b *n.* a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars
341. 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
342. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
343. inc_____te the current trends *v.* to include something as a part of a larger entity
344. at_____t customers *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones

ANSWERS: 336. tug, 337. timescale, 338. filament, 339. axis, 340. orb, 341. tube, 342. feat, 343. incorporate, 344. attract

345. com_____on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
346. for spe_____lly American customers *adv.* only associated with or meant for one thing
347. di_____t a personality *v.* to cut into pieces to study the structure of something in detail
348. re_____t deeper into their territory *n.* the act of moving back or withdrawing from a position or situation; a period of rest or relaxation away from work or everyday life
349. 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
350. pu_____e sweet potatoes *adj.* of a color intermediate between red and blue
351. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
352. su_____al food *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
353. ve_____al axis *adj.* upright or perpendicular to a horizontal surface or line
354. v__t desert *adj.* enormous in size, number, amount, or quantity
355. hyp_____ze what could have happened *v.* to form or present a theory or explanation without sufficient evidence; to speculate

ANSWERS: 345. comparison, 346. specifically, 347. dissect, 348. retreat, 349. carbon, 350. purple, 351. laboratory, 352. survival, 353. vertical, 354. vast, 355. hypothesize

356. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
357. eq__p our children with some special skills *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
358. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 356. immune, 357. equip, 358. stick

Session 3: Fill in the Blanks

1. He should _____ more with his colleagues.
v. to communicate or react with somebody
2. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
3. The _____ outfit drew the attention of everyone in the room.
adj. bizarre, strange, or unconventional in appearance, behavior, or thought, often in a way that is seen as foreign or exotic; unusual or strikingly different from what is expected or normal
4. _____ injuries are common among athletes.
n. a strong, fibrous cord of tissue that connects muscle to bone
5. Powder coating protects the _____ aluminum alloy components.
adj. composed of thinner and lighter material than average; not severe or impressive
6. The _____ of the coffee was rich and full-bodied.
n. the taste sensation produced by a substance in the mouth
7. The repeating floral _____ in the wallpaper added a touch of elegance to the room.
n. a recurring element in an artistic or literary work, typically a particular image or idea; a theme that is repeated or elaborated in a piece of music
8. The earth's _____ of rotation is tilted 66.5 degrees to the ecliptic plane.
n. a real or imaginary straight line through a body or figure around which the object turns; a group of countries in special alliance

ANSWERS: 1. interact, 2. vast, 3. outlandish, 4. Tendon, 5. lightweight, 6. flavor, 7. motif, 8. axis

9. A peculiar _____ material coated the foliage.

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

10. 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

11. _____ diamonds play an essential role as machine tool blades.

adj. made by combining chemical substances as opposed to being naturally occurring

12. Many financial _____ work in investment banks, using complex mathematical models to analyze financial data.

n. quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

13. The planet Venus appeared as a bright ____ in the sky during the night.

n. a sphere or ball-shaped object, often referring to celestial bodies such as planets or stars

14. 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

15. The data _____ that the company's profits have steadily increased over the past quarter.

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

ANSWERS: 9. sticky, 10. strain, 11. Synthetic, 12. quants, 13. orb, 14. component, 15. indicates

16. The man _____ before opening the door.

v. to take a short break from talking or doing something before continuing

17. The witness's testimony was _____ based on what he had seen and heard.

adv. believed to be true or likely based on the available evidence, or supposed to be the case without definite proof

18. A _____ engineer is still in demand in many companies.

adj. operated by a machine, relating to or concerned with machinery or tools

19. 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

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

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

21. Health and _____ are, above all, gold.

n. the quality or state of being physically, or sometimes mentally, strong

22. The high _____ levels in the blood were an indicator of liver disease.

n. a hydrophilic amino acid that acts as a neurotransmitter and is found in many proteins

23. _____ 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

ANSWERS: 16. paused, 17. presumably, 18. mechanical, 19. environment, 20. ancestor, 21. strength, 22. serine, 23. Evolutionary

24. His father's death changed his whole _____ on life.
- n.* a confident attitude toward something; a particular style of thinking about something
25. Certain soft drinks and sugar-free products have warning label about their _____ content.
- n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)
26. The company's _____ strategy helped them weather the economic downturn.
- n.* the act of expanding a business or portfolio by adding new products, services, or investments to reduce risk and increase profitability
27. She wore a _____ of pearls around her neck.
- n.* long, thin material used for tying things together, composed of several twisted threads
28. Lizards can _____ their tails if they are cut off.
- v.* to grow back or regenerate after being cut or removed, such as cells or tissues in the body, or plants and vegetation
29. The _____ of the palace was breathtaking.
- n.* the quality or state of being extremely good, beautiful, or deserving to be admired
30. He lost the election by _____ votes.
- adj.* used to emphasize how insignificant or minor someone or something is

ANSWERS: 24. perspective, 25. phenylalanine, 26. diversification, 27. string, 28. regrow, 29. magnificence, 30. mere

31. The wallpaper had a pattern of pink _____ on a white surface.
n. a very small circular mark, especially one that is printed
32. We supply the military with durable vests made of _____.
n. a synthetic material used for making clothes, ropes, brushes, etc.
33. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
34. The investigation _____ several government agencies and is expected to take several months.
v. to include or affect someone or something as a necessary part of something else
35. The snake's _____ is highly toxic and can be fatal to humans.
n. a toxic substance produced by an animal, typically a snake or insect, and injected into prey or an enemy by biting or stinging
36. Many zoos have _____ exhibits, allowing visitors to observe these intelligent primates up close.
n. a small, very intelligent ape found in west and central Africa with black or brown fur
37. She accidentally left a _____ on the newly painted wall.
n. a blurry or dirty mark or stain left by rubbing or smearing something; also, a bundle of material, such as sage or incense, that is burned to produce smoke for purification or ritual purposes
38. 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

ANSWERS: 31. dots, 32. nylon, 33. opportune, 34. involves, 35. venom, 36. chimpanzee, 37. smudge, 38. carbon

39. The _____ airport runways may accommodate larger jets.

adj. longer than usual or anticipated

40. Later, his claim was found to be _____ false.

adv. completely

41. 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

42. 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

43. The girl _____ a garland for her friend.

v. to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

44. The plant has a stunning _____ blossom.

adj. of a color intermediate between red and blue

45. 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

46. _____ 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

ANSWERS: 39. extended, 40. entirely, 41. individual, 42. fossil, 43. weaves, 44. purple, 45. acid, 46. Terrestrial

47. The leaves of the fern were arranged in a _____ pattern.
- n.* a curve that coils around a central point and gets progressively farther away from it as it goes around
48. 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
49. The _____ of the plant depends on the pollinators.
- n.* the process by which organisms create offspring; the production of something similar to an original work
50. In the medical field, service _____ refers to medical procedures, diagnoses, and medications.
- n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use
51. The _____ design of the wheel allows for maximum strength and stability.
- adj.* of or relating to rays or the radii of a circle; spreading out from a central point
52. The findings of the experiment were both _____ and unexpected.
- adj.* causing a lot of interest or excitement
53. The _____ on the outdoor faucet was leaking and needed to be fixed.
- n.* a valve or faucet used to control the flow of liquid from a container or pipe
54. Volunteering for a _____ cause is important for building a sense of community.
- adj.* having value or benefit; sufficiently important or beneficial to be worthy of time or effort; deserving of attention or consideration

ANSWERS: 47. spiral, 48. diversity, 49. reproduction, 50. abbreviation, 51. radial, 52. exciting, 53. spigot, 54. worthwhile

55. We _____ cows to gain milk and meat.
v. to take control of animals or plants to provide food, power, or company
56. Her research focuses on molecular _____ which uses gene sequences to study evolutionary relationships.
n. the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
57. The engineer tested the _____ strength of the metal to determine its durability.
adj. relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
58. The software can _____ and decode encrypted messages.
v. to convert information into a code or format suitable for storage or transmission
59. Scientists _____ that the new fish species evolved to survive in deep-sea environments.
v. to form or present a theory or explanation without sufficient evidence; to speculate
60. We must consume dietary _____ to maintain good health.
n. thread or filament used to make a vegetable tissue, mineral material, or textile
61. The construction workers set up the _____ to reach the top of the building.
n. a temporary platform or structure used to support workers and materials during construction or maintenance work
62. She tried to _____ out the gum that she had been chewing.
v. to eject saliva or other liquid from the mouth

ANSWERS: 55. domesticate, 56. phylogenetics, 57. tensile, 58. encode, 59. hypothesize, 60. fiber, 61. scaffold, 62. spit

63. I was able to _____ the moment on film.

- v.* to catch a person or an animal and confine them in an area which they cannot escape

64. I ordered a plate of fresh _____ at the seafood restaurant.

- n.* a sea creature with two large claws and a flattened back (e.g., blue crab or king crab); a sour or grumpy person who is prone to complaining or criticizing

65. 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

66. Many people go on a _____ to recharge and reconnect with themselves.

- n.* the act of moving back or withdrawing from a position or situation; a period of rest or relaxation away from work or everyday life

67. The software has an _____ design, allowing for easy customization and future updates.

- adj.* capable of being extended, stretched, or expanded; able to be enlarged, broadened, or lengthened

68. The _____ of the sperm cells help it to move towards the egg.

- n.* (plural, flagella) a long, thin, whip-like structure that some cells use for movement

69. The _____ amount of money raised for the charity was over a million dollars.

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

70. The _____ rainstorm caused the collapse of the corral.

- adj.* not anticipated or regarded as likely to happen

ANSWERS: 63. capture, 64. crab, 65. genetic, 66. retreat, 67. extensible, 68. flagellum, 69. aggregate, 70. unexpected

71. 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
72. The boss went _____ when he found out we missed the deadline.
- adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
73. The protein contained a high _____ content, making it vital for specific metabolic reactions.
- n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
74. She became a _____ after her husband passed away.
- n.* a woman whose spouse has died and who has not remarried
75. Many scientists study _____ behavior and intelligence.
- n.* any mammal of the order Primates, which includes monkeys, apes, and humans
76. It is illegal to _____ police radio.
- v.* to stop and catch someone or something to prevent them from continuing to a destination
77. The view from the top of the mountain was _____ with sweeping vistas of the valley below.
- adj.* causing terror or fear; extremely great or intense; very good or excellent
78. The archer aimed his _____ carefully at the target.
- n.* a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

ANSWERS: 71. tube, 72. ballistic, 73. glycine, 74. widow, 75. primate, 76. intercept, 77. terrific, 78. arrow

79. We will attempt to _____ some of your suggestions into our future strategy.
- v.* to include something as a part of a larger entity
80. I've included the two designs for a _____.
- n.* the consideration or examination of the similarities between two or more people or things
81. The industrial _____ laws were passed with little to no alteration.
- n.* the way two persons or groups of people feel and act toward one another
82. He tried to _____ his experience to the group, but they couldn't understand.
- v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
83. The _____ spun an intricate web in the corner of the room.
- n.* a small, eight-legged creature that spins webs to catch insects as food; a computer program that systematically browses the World Wide Web for purposes of web indexing
84. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
85. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
86. The _____ index tracks the performance of multiple stocks in the same sector.
- adj.* made up of different parts, elements, or substances; (noun) something made from two or more different substances

ANSWERS: 79. incorporate, 80. comparison, 81. relations, 82. relate, 83. spider, 84. constructs, 85. molecule, 86. composite

87. They will _____ between various emotional states.
- v. to cause to move up or away after hitting a surface; to spring back
88. They are eager to _____ a positive reputation.
- v. make fast as if with cement; (noun) a building material that is a powder made of a mixture of calcined limestone and clay, used with water, sand, and small stones to make concrete
89. Computational simulations help determine which _____ molecule is susceptible to change by specific enzymes.
- n. a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
90. This bar _____ shows sales over the past five years.
- n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
91. The _____ cocoon contains the silk fibers used to make luxurious fabrics.
- n. the larva of a moth of the Bombyx genus that spins a cocoon of silk to encase itself while it transforms into a pupa; the silk fibers can be harvested and used to make fabric, such as silk
92. Some herds have been observed to _____ hundreds of kilometers.
- v. to make or be capable of making anything longer or broader without hurting or breaking
93. The museum houses a _____ collection of Celtic artifacts.
- adj. extremely interesting
94. The _____ of the earthquake was measured at 7.8 on the Richter scale.
- n. the extent, level, importance, or amount of something

ANSWERS: 87. bounce, 88. cement, 89. substrate, 90. graph, 91. silkworm's, 92. stretch, 93. fascinating, 94. magnitude

95. Maximum heart rates _____ a lot for each individual.
v. to become different in terms of size, shape, etc.
96. The budget reduction was an _____ feat for our nation.
adj. arousing admiration due to size, quality, or skill
97. The _____ in the light bulb burned out, and now it's not working.
n. a thin wire or thread, especially one used to produce light in an electric bulb
98. The airport offers five _____ access routes.
adj. useful, helpful, or quick to do
99. The _____ in opinions among the team members led to a delay in completing the project.
n. the act or process of separating and moving in different directions; a difference or variance between two or more things or ideas; a deviation from a common or shared path or goal
100. I have no _____ to the countryside.
n. a feeling of affection for someone or something
101. His son had accurately _____ the bloom.
v. to illustrate someone or something in a photograph
102. The detective looked for fingerprints on the window _____.
n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
103. Recent electoral shocks have shaken the political _____ in Europe.
n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 95. vary, 96. impressive, 97. filament, 98. convenient, 99. divergence, 100. attachment, 101. depicted, 102. frame, 103. landscape

104. The country was instrumental in promoting the _____ treaty.
- n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
105. He _____ the heavy suitcase behind him as he walked.
- v.* to pull or haul with force
106. He needed to _____ with structural reforms to improve the company's revenue.
- v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
107. The _____ of starting a new business can be both exciting and daunting.
- n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
108. The aircraft's design was inspired by _____ principles, which allowed for improved aerodynamics and reduced fuel consumption.
- n.* the study of natural systems and structures to create new technologies or improve existing ones
109. Hydrogen and oxygen _____ to form water.
- v.* to join or merge to form a single thing or group
110. This movie _____ at everyone's heartstrings.
- v.* to pull something quickly and hard, often several times
111. The vaccination does not necessarily make you completely _____.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

ANSWERS: 104. biodiversity, 105. dragged, 106. grapple, 107. prospect, 108. biomimetics, 109. combine, 110. tugs, 111. immune

112. A single _____ of water can reflect the entire world upside down.
n. a small drop of liquid
113. The government is eager to _____ international investment.
v. to draw or entice someone or something towards them through the qualities they have, especially positive ones
114. The storm left a _____ of destruction behind it.
n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
115. The tornado is _____ across the countryside, destroying everything in its path.
v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
116. I bought a new tool ____ for my home repair projects.
n. a set of tools, supplies, or equipment for a particular purpose
117. The construction company _____ the building with an earthquake-resistant device.
v. to provide a person or a place with the things that are needed for a particular purpose or activity
118. She wore a _____ dress to the party.
n. a fine, strong, soft, lustrous fiber produced by silkworms in making cocoons and collected to make thread and fabric
119. 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

ANSWERS: 112. droplet, 113. attract, 114. trail, 115. spinning, 116. kit, 117. equipped, 118. silk, 119. rev

120. I placed my valuables in the ____ before heading out on my hike.

n. a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant

121. I love wearing ____ socks during the winter to keep my feet warm.

n. a textile fiber obtained from the fleece of sheep or certain other animals, used for making clothing and other fabric items

122. Trial and error is an _____ part of education.

adj. indispensable; fundamental

123. You can be more _____ and creative in your approach.

adj. able to change or be changed to suit new conditions or situations; able to bend easily

124. You _____ a bill in the change machine, and the coins pop out.

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

125. The adrenal _____ produce steroids.

n. a group of cells in an animal's body that produce substances needed by the body and release them through ducts or directly into the bloodstream

126. 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

127. Have you _____ a response from them yet?

v. to obtain information or a reaction from someone, usually with difficulty

ANSWERS: 120. sac, 121. wool, 122. essential, 123. flexible, 124. stick, 125. glands, 126. geology, 127. elicited

128. In _____ private corporations provide healthcare services.

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

129. 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

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

adj. including numerous categories of individuals or entities; various

131. 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

132. As tectonic plates _____ new oceanic crust is formed along mid-ocean ridges.

v. to move or extend in different directions from a common point; to branch off or deviate from a path or course

133. The majority of snakes swallow their _____ whole.

n. the object of a hunt; an animal hunted or trapped for eating

134. There is a lot of _____ in the colors of flowers in the garden.

n. the act or state of changing; a difference or change in the way something is done, made or said

135. 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

ANSWERS: 128. addition, 129. ancient, 130. diverse, 131. biology, 132. diverge, 133. prey, 134. variation, 135. protein

136. Many of the lakes and marshes in the _____ are mildly salty.

- n.* a natural depression or valley that is circular or oval on the surface of the earth, especially one that has water in it; a container with a bowl form that is typically used to hold food or liquids

137. In the city, the risk of traffic accidents _____ at every corner.

- v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

138. Hounds _____ their prey by using their keen scent.

- v.* to go after and try to catch wild animals to kill them for food, sport, or profit

139. He evaluated his chances for _____ rather pessimistically.

- n.* the state of continuing to exist or live, frequently in the face of difficulty or danger

140. The scientist _____ the frog to study its internal organs.

- v.* to cut into pieces to study the structure of something in detail

141. The artist used a _____ paint can to create a graffiti mural on the wall.

- n.* a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage

142. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.

- n.* a notable or impressive achievement, especially one that requires great skill or bravery

143. These _____ are more prevalent above a certain latitude.

- n.* any small creature that has six legs and a body divided into three sections

ANSWERS: 136. basin, 137. lurks, 138. hunt, 139. survival, 140. dissected, 141. spray, 142. feat, 143. insects

144. The sponge _____ water well.

v. to take in a fluid or other substance gradually

145. The pandemic was a _____ business opportunity for certain companies.

adj. fairly large in size, value, or importance

146. Animal protection groups call for an end to animal testing in a _____.

n. a workplace for doing scientific research or teaching science; a lab

147. We went on an exhilarating _____ adventure, climbing steep mountain slopes and glaciers.

adj. relating to or characteristic of high mountains, especially the Alps; of or relating to cold, snowy, or rugged terrain

148. Little children tend to have _____ friends.

adj. existing only in someone's mind

149. There are many _____ regions of the ocean that scientists hope to study soon.

adj. not yet examined, investigated, or studied; lacking in knowledge or information; unknown or undiscovered

150. She agreed to _____ with him in creating new artwork.

v. to work with someone else to produce or achieve something

151. In ancient civilizations, the scarab _____ was worshiped as a sacred creature.

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

152. The budget _____ forced them to make difficult decisions.

n. a limit or restriction on something, such as an action, behavior, or thought

ANSWERS: 144. absorbs, 145. substantial, 146. laboratory, 147. alpine, 148. imaginary, 149. unexplored, 150. collaborate, 151. beetle, 152. constraint

153. We do move forward with those tasks in _____ next week.

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

154. He suffers from _____ breakdowns.

adj. worried and anxious about something; relating to the nerves

155. _____ the bandage tightly around the injured arm.

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

156. The ladder leaned against the _____ surface of the building.

adj. upright or perpendicular to a horizontal surface or line

157. His professional experience includes all _____ of media production.

n. one part or feature of a situation, problem, subject, etc.

158. The _____ to the safe was a secret.

n. a collection of things that have been combined; an assemblage of separate parts or qualities

159. Life expectancy has grown _____ this century.

adv. in a very impressive manner

160. _____ 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

161. The _____ in the road was so sharp that I had to slow down to navigate it safely.

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

ANSWERS: 153. sequence, 154. nervous, 155. Wrap, 156. vertical, 157. aspects, 158. combination, 159. dramatically, 160. Biomedical, 161. curve

162. _____ is the mother of all learning.
n. the act of doing or saying something many times
163. The _____ temperature recorded this summer was higher than average.
adj. the largest or greatest amount or value attainable or attained
164. This ad campaign is aimed _____ at young women.
adv. only associated with or meant for one thing
165. The paramedics had to _____ the accident victim to prevent further injury during transport to the hospital.
v. to render someone or something unable to move or function normally; to restrain, inhibit, or stop
166. The _____ hunter was hired to capture the notorious criminal and bring him to justice.
n. a reward offered for capturing or killing someone or for accomplishing a specific task
167. 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
168. The physician carefully inserted a catheter into the patient's _____ to drain excess fluid.
n. a small, rounded, or flask-shaped container or cavity in the body, often used to refer to specific structures or parts of the anatomy, such as the dilated portion of a fallopian tube or a structure in the digestive system

ANSWERS: 162. Repetition, 163. maximum, 164. specifically, 165. immobilize, 166. bounty, 167. timescale, 168. ampulla

169. Nevada is _____ a desert state.

adv. virtually entirely; to a large degree

170. I love jumping on the _____ in my backyard.

n. a strong fabric sheet attached by springs to a frame, used for bouncing on

171. That _____ shows that people are accepting the tax increase to some extent.

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

172. Each _____ in the salivary gland produces and secretes saliva.

n. a small, rounded sac or cavity found in the body, particularly in glands and organs, such as the respiratory system or the exocrine glands, where it is involved in the production and secretion of substances

173. The sunlight shone through the _____ curtains, casting a warm glow in the room.

adj. allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

174. The athlete's record-breaking performance _____ all expectations.

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

175. Administrators must _____ to the highest standards.

v. to stick firmly; to be compatible

176. I need to _____ this document before I send it.

v. to make or be an exact copy of something; to reproduce something

ANSWERS: 169. largely, 170. trampoline, 171. survey, 172. acinus, 173. translucent, 174. surpassed, 175. adhere, 176. duplicate

177. Let's _____ the origins of some familiar foreign words.

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

178. 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

179. The researcher separated the nervous _____ for microscopic examinations.

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

ANSWERS: 177. trace, 178. amino, 179. tissue