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Adam Garske: How designing brand-new enzymes could change the world | TED Talk

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

All Words

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Session 1: Word List

fragrance

n. a pleasant or sweet smell, especially one that is natural to a particular substance

synonym: aroma, scent, perfume

(1) **fragrance** oil, (2) lavender **fragrance**

The **fragrance** of the roses filled the air and brought a smile to my face.

lilac

n. a small tree or shrub with fragrant purple or white flowers; the pale purplish or lavender color of the lilac flower

(1) **lilac** scent, (2) blooming **lilac**

The beautiful **lilac** bush in my yard blooms every spring.

glow

v. to give out a steady, strong light

synonym: shine, radiate, beam

(1) **glow** a pale orange, (2) **glow** gold in the light

The sun was setting, and the sky **glowed** with beautiful colors.

firefly

n. a flying nocturnal insect common in warm regions with a tail that shines in the dark

(1) the glow of a **firefly**, (2) sparkle like **firefly**

In that country, there is a culture of eating live **firefly** squid.

zip

n. a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently

synonym : fastener, postcode, slide

(1) **zip** code, (2) **zip** file

She put her phone in the **zip** pocket of her backpack.

muggy

adj. uncomfortably warm and humid, with a sense of dampness in the air; oppressive or damp in the atmosphere or feeling

synonym : humid, damp, sticky

(1) **muggy** summer, (2) **muggy** air

The hot and **muggy** weather made it difficult to breathe.

boggy

adj. containing a lot of soft, wet soil; marshy, swampy, or waterlogged

synonym : swampy, marshy, mucky

(1) **boggy** land, (2) **boggy** area

The trail through the forest was so **boggy** that our shoes became soaked.

brim

n. the top edge of a cup, bowl, or other containers; a circular projecting edge at the bottom of a hat

synonym : beak, edge, bound

(1) the **brim** of a hat, (2) the pelvic **brim**

The glass was filled to the **brim** with beer.

cranberry

n. a small, tart red berry often used in cooking or for its medicinal properties

(1) fresh **cranberry**, (2) **cranberry** sauce

I need to buy some **cranberry** juice for the recipe I'm making.

charm

n. the power or quality of pleasing or fascinating people
synonym : allure, appeal, beauty

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

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

bouquet

n. a bunch of flowers, especially one presented as a gift or carried at a ceremony

synonym : bunch, arrangement, nosegay

(1) hand over a **bouquet**, (2) bridal **bouquet**

He gave her a **bouquet** of roses as a gift.

emanate

v. to emit, send out something; to express a quality or feeling

synonym : radiate, exude, give off

(1) **emanate** light, (2) **emanate** happiness

The fragrance of flowers **emanated** from the garden.

inspiration

n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

synonym : motivation, drive, encouragement

(1) source of **inspiration**, (2) get **inspiration** from nature

He found **inspiration** in the works of his favorite authors.

graduate

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

synonym : alumna, alum, grad

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

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

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

molecular

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

synonym : microscopic, atomic

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

Molecular weight is the sum of all the atoms.

mention

v. to speak or write about something or someone briefly

synonym : reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

scent

n. a distinctive smell, especially a pleasant one

synonym : fragrance, aroma, perfume

(1) natural **scent**, (2) **scent** memory

The **scent** of freshly baked bread filled the bakery.

manufacture

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

synonym : create, fabricate, assemble

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

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

enzyme

n. a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction

synonym : catalyst, activator, accelerator

(1) **enzyme** reaction, (2) lack of digestive **enzymes**

A deficiency in the **enzyme** can lead to a medical condition.

bay

n. a part of the coast that is partially enclosed by land; a compartment or section of a ship or building

synonym : inlet, cove, gulf

(1) **bay** area, (2) the mouth of a **bay**

She walked along the **bay** and collected shells.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

mixture

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

synonym: blend, amalgam, concoction

(1) **mixture** of emotions, (2) perfect **mixture**

The paint was a **mixture** of different pigments to achieve the desired color.

stomach

n. the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach

synonym: belly, abdomen, gut

(1) upset **stomach**, (2) **stomach** virus

I have a **stomach** ache after overeating junk food.

cow

n. a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat

synonym: bovine, cattle, kine

(1) **cow** herd, (2) dairy **cow**

The farmer milked the **cows** every morning before breakfast.

curdle

v. to separate or cause to separate into solid lumps, particularly as a result of spoilage or by the addition of an acidic substance; to cause someone to feel uncomfortable or uneasy

synonym: clot, solidify, curd

(1) make his blood **curdle**, (2) start to **curdle** in the hot sun

If you add lemon juice to milk, it will **curdle** and form chunks.

process

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

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

chymosin

n. a protease enzyme found in the stomachs of young ruminant animals, used in the production of cheese to curdle milk and separate the curds and whey

synonym : rennin, chymase, protease

(1) **chymosin** enzyme, (2) **chymosin** production

The use of **chymosin** in cheese production has decreased the need for animal rennet.

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.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym : show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

slice

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

synonym : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin
The children complained because one **slice** of cake was slightly larger than the other.

pineapple

n. tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
synonym: ananas, tropical fruit, bromeliad

(1) ripe **pineapple**, (2) canned **pineapple**

I love to eat fresh **pineapple** in my fruit salad.

bind

v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

synonym: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle

The company's rules **bind** the employee's working hours.

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.

casein

n. a protein found in milk and cheese that is commonly used in the manufacture of plastics, glues, and other products

synonym: milk protein, cheese protein

(1) micellar **casein**, (2) **casein** allergy

The bodybuilder consumes a scoop of **casein** protein before bedtime to fuel muscle growth and recovery overnight.

clip

n. a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip

synonym: buckle, hook, pin

(1) tie **clip**, (2) short video **clip**

He fastens some sheets of paper with a **clip**.

simmer

v. to cook food over low heat in a liquid, maintaining a temperature just below boiling point; to be filled with a low level of intense emotion; to be on the verge of expressing strong feelings

synonym: stew, boil slowly, cook gently

(1) **simmer** until water evaporates, (2) **simmer** in her mind for years

The soup must **simmer** for at least an hour for all the flavors to blend.

blueprint

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

synonym: draft, prototype, sketch

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

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

laborer

n. a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks

synonym: worker, employee, operative

(1) **laborer** job, (2) skilled **laborer**

The construction site hired many **laborers** to help with the heavy lifting.

instruction

n. detailed direction, order, etc., on how to do or use something

synonym: education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

catalyst

n. a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

synonym : accelerator, stimulant, motivation

(1) a **catalyst** in the process of hydrolysis, (2) **catalyst** for reform

The global financial crisis acted as a **catalyst** to unite the country.

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym : speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car

The government tried to **accelerate** the commercialization of this development.

chemical

adj. relating to or connected with chemistry;

synonym : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

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.

infant

n. a baby or very young child

synonym : baby, newborn, tot

(1) **infant** daughter, (2) **infant** food
Mozart was an **infant** prodigy.

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**.

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.

typical

adj. having the usual characteristics or traits of a specific group of things
synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

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.

alphabet

n. a character set that includes letters and is used to write a language

synonym: ABC's

(1) letters of an **alphabet**, (2) an **alphabet** of manual signs

He strove to memorize the Hebrew **alphabet**.

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.

pearl

n. a hard, roundish object found within the shells of certain mollusks and used as a gem

synonym: bead, gem, nacre

(1) a cultured **pearl**, (2) **pearl** beyond price

She wore a **pearl** necklace passed down to her from her grandmother.

necklace

n. a piece of jewelry that is worn around the neck, typically consisting of a chain or cord with a pendant, charms, or beads attached

synonym: chain, choker, pendant

(1) beaded **necklace**, (2) pearl **necklace**

She received a beautiful **necklace** from her grandmother as a birthday gift.

identity

n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another

synonym: character, personality, individuality

(1) mistaken **identity**, (2) **identity** as an individual

The terrorist's **identity** remains unknown.

differentiate

v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative

synonym: discern, distinguish, separate

(1) **differentiate** between fact and fiction, (2) **differentiate** a function

The teacher asked the students to **differentiate** between the two similar species of birds.

structure

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

synonym: construction, architecture, establishment

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

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

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

strand

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

synonym: fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

loop

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

synonym: circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for

transportation.

helix

n. a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule

synonym: coil, spiral, twist

(1) **helix** structure, (2) alpha **helix**

The DNA molecule is shaped like a double **helix**.

twist

v. to bend or turn something into a certain shape

synonym: wrench, turn, twirl

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

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

conformation

n. the shape or structure of something, particularly an organism's physical or anatomical structure; agreement, correspondence, or conformity to a certain standard, pattern, or expectation

synonym: compliance, agreement, correspondence

(1) **conformation** analysis, (2) **conformation** form

The **conformation** of the protein is crucial to its function.

prop

n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

synonym: support, buttress, column

(1) emotional **prop**, (2) **prop** stick

We have finally lost our last **prop**.

nowadays

adv. at the current time, in comparison to the past

synonym: currently, presently, today

(1) young people **nowadays**, (2) not to be seen **nowadays**

People can clone a sheep **nowadays**.

microbe

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

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer
Microbes thrive on the surface of the human skin.

bacteria

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

synonym : microorganism, microbe

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

yeast

n. a type of fungus that is used in making alcoholic drinks such as beer and wine or to make bread rise

synonym : leaven, fungus

(1) **yeast** cell, (2) **yeast-leavened** bread

They carefully nurture a **yeast** fungus used to produce sake.

insert

v. to put something inside something else

synonym : introduce, add, embed

(1) **insert** coin, (2) **insert** a graphic

She **inserted** a new chapter into her manuscript.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym : apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

calf

n. a young cow, bull, or other domestic bovine animals

synonym : baby cow, heifer, yearling

(1) baby **calf**, (2) a **calf** elephant

The newborn **calf** stood on wobbly legs, trying to find its mother's milk.

dial v. to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called

synonym : adjust, set, turn

(1) **dial** up the volume, (2) **dial** down the tension

He **dialed** the phone number and waited for an answer.

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.

arrange v. to plan, prepare for, and carry out something

synonym : set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged** alphabetically

I need to **arrange** plans with him for the celebration.

atom n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

tinker v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

synonym : fiddle, play, fix

(1) **tinker** with the bill, (2) **tinker** with the settings

He spent the afternoon **tinkering** with his car engine.

rearrange

v. to change the order or position of things already made; to change the time, date, or place of an event already planned

synonym : readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule

Please **rearrange** these files as we start a new project tomorrow.

edit

v. to prepare written material for publication by correcting, condensing, or otherwise modifying it

synonym : revise, modify, adjust

(1) **edit** a history book, (2) **edit** a video

I need to **edit** this document before submitting it to my boss.

chapter

n. a separate section of a written work usually numbered and titled

synonym : section, phase, episode

(1) an introductory **chapter**, (2) **chapter** of a political party

The final **chapter** provides a summary of the discussion.

develop

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

synonym : evolve, progress, advance

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

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

evolution

n. a gradual process of transformation of living things

synonym : elaboration, expansion, transition

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

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

harness

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

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

synonym: rein in, control, (noun) belt

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

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

laundry

n. the act of washing clothes and linens; a room or area where clothes are washed and ironed

synonym: wash, clothes, linen

(1) send out the **laundry**, (2) **laundry** room

I need to do the **laundry** before I run out of clean clothes.

detergent

n. a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

synonym: soap, cleanser, disinfectant

(1) **detergent** solution, (2) laundry **detergent**

I use environmentally friendly **detergent** when I wash my clothes and dishes.

stain

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

synonym: discolor, tarnish, defile

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

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

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.

calculation

n. the act or process of using numbers to judge an amount of something

synonym: analysis, computation, estimate

(1) make a **calculation**, (2) **calculation** of loss and gain

The error in the **calculation** was attributable to rounding.

gamble

v. to take risky action in the hope of being successful; to play or game for money or other stakes

synonym: bet, venture, wager

(1) **gamble** \$100 on the race, (2) **gamble** away my fortune

Will you **gamble** on the result of the fight?

emission

n. the act of production or sending out gas, heat, light, etc.

synonym: emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

metric

adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

synonym: metrical, measured

(1) **metric** units, (2) key performance **metrics**

In the **metric** system, measurements are made in meters and liters.

equivalent

n. having the same value, quality, meaning, purpose, etc.

synonym: equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the Federal Reserve.

carbon

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

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

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

oxide

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

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

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

emit

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

synonym: give off, radiate, expel

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

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

evolve

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

synonym: develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

clay

n. a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics

synonym: ceramics, pottery, dirt

(1) **clay** animation, (2) soft **clay** ground

The sculptor carefully molded the **clay** into the desired shape.

fabric

n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

synonym: cloth, material, goods

(1) a hand-loomed **fabric**, (2) **fabric** of creation

These synthetic **fabrics** are used in military vests because of their excellent abrasion resistance.

ballpark

v. a place or facility where baseball is played; a rough estimation of something

synonym: arena, proximity, vicinity

(1) **ballpark** price, (2) major-league **ballpark**

It'll be somewhere in the **ballpark** of \$100.

rid

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

synonym: do away with, free, clear

(1) get **rid** of the rats, (2) **rid** the body of waste products

We must **rid** ourselves of pollution.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

cycle

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

synonym: revolution, rotation, bike

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

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

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.

chop

v. to cut something into pieces with a sharp tool, such as a knife

synonym: cut, hack, slice

(1) **chop** wood, (2) **chop** a meet with a knife

The cook **chopped** the vegetables for the soup.

extrapolate

v. to guess or think about what might happen or estimate something using the facts that you have now

synonym: deduce, reason, infer

(1) **extrapolate** the results, (2) **extrapolate** animal dose
This predictive model mechanically **extrapolates** past trends into the future.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space
She tried to **visualize** the layout of the new house in her mind.

horizon

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

synonym: skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**
As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

scratch

v. to cut or damage the surface of something or the skin with a sharp or pointed object

synonym: claw, rub, scrape

(1) **scratch** off a name, (2) **scratch** my signature
Don't **scratch** your mosquito bites.

intelligence

n. the ability to learn, comprehend, or make judgments or conclusions based on reasons

synonym: brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**
In terms of **intelligence**, he was head and shoulders above his classmates.

neat

adj. clean or tidy, with everything in its place

synonym: tidy, uncluttered, refined

(1) a **neat** piece of work, (2) **neat** idea
She has **neat** habits.

pharmaceutical

adj. relating to the production and selling of the medical drugs

synonym: drug, medication, prescription

(1) major **pharmaceutical** companies, (2) commercial **pharmaceutical** products

She gave money to help set up a **pharmaceutical** laboratory.

dedicate

v. to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

synonym: consecrate, devote, commit

(1) **dedicate** a few hours, (2) **dedicate** a chapter to the subject

He **dedicated** his life to helping others.

efficiently

adv. in a way that produces maximum output with minimum effort or expense

synonym: expeditiously, skillfully, ably

(1) **efficiently** combined, (2) develop software more **efficiently**

We can resolve support requests quickly and **efficiently** by utilization of AI.

toxic

adj. of or relating to or caused by a poison; poisonous

synonym: poisonous, harmful, contaminated

(1) **toxic** molecule, (2) exposure to **toxic** chemicals

This chemical compound is a thousand-fold more **toxic**.

medication

n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

synonym: cure, drug, medicine

(1) antibiotic **medication**, (2) **medication** by mouth

The pharmacist not only prescribes the **medication** but also

guides its proper use.

diabetes

n. a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

(1) juvenile **diabetes**, (2) **diabetes** patient

My father was tested for **diabetes**.

disorder

n. an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

synonym: chaos, disturbance, disease

(1) the files are in complete **disorder**, (2) people with bipolar **disorder**

The doctor prescribed some medicine for the mental **disorder**.

phenylketonuria

n. a genetic disorder that causes a build-up of phenylalanine (= an essential amino acid) in the body and can lead to intellectual disability, behavioral problems, seizures, and other physical and mental health issues

synonym: PKU, folling's disease

(1) **phenylketonuria** test, (2) **phenylketonuria** diet

Newborns with **phenylketonuria** must follow a strict diet to prevent any negative effects on their health.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

digest

v. to transform food into absorbable substances; break down

synonym: absorb, condense

(1) **digest** information, (2) help **digest** food

Most babies can readily **digest** a wide variety of foods.

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.

consequence

n. the outcome of a particular action or event, especially relative to an individual

synonym: result, impact, outcome

(1) unintended **consequences**, (2) the **consequence** of an argument

These economic activities had disastrous environmental **consequences**.

ingest

v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

synonym: swallow, consume, devour

(1) **ingest** food, (2) **ingest** medication

People who compulsively **ingest** non-food items, such as dirt or chalk, suffer from a condition called pica.

permanent

adj. lasting for a long time without essential change

synonym: lasting, ceaseless, endless

(1) literature of **permanent** value, (2) **permanent** life insurance

She is searching for a **permanent** residence.

intellect

n. the ability to think logically and comprehend information, especially at an advanced level

synonym: mind, brightness, cleverness

(1) enrich my **intellect**, (2) human **intellect**

Your **intellect** is capable of distinguishing among similar objects.

disability

n. a physical or mental condition that makes it difficult for someone to do some things that other people do

synonym: impairment, disadvantage, restriction

(1) a **disability** pension, (2) a learning **disability**

Listening to music at a high volume may lead to a hearing **disability**.

scary

adj. causing fear or fright; frightening; intimidating

synonym: terrifying, frightening, alarming

(1) **scary** dream, (2) **scary** story

The horror movie was so **scary** that I couldn't watch it alone.

heel

n. the rounded back part of the foot below the ankle; someone who is morally reprehensible; (verb) to follow someone or something

synonym: hindfoot

(1) **heel** bone, (2) **heel** wrestler

She wore high **heels** to the party.

prick

v. to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication

synonym: poke, jab, sting

(1) **prick** a balloon, (2) **prick** up her ears

He accidentally **pricked** his finger with the needle.

incredibly

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

synonym: enormously, exceptionally, extraordinarily

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

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

allergy

n. a hypersensitivity disorder of the immune system, characterized by an exaggerated response to certain allergens, such as pollens, foods, and drugs

synonym : hypersensitivity, reaction

(1) food **allergy**, (2) **allergy** treatment

The **allergy** test helped to determine the cause of her symptoms.

patient

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym : client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

recreation

n. the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place

synonym : amusement, entertainment, refreshment

(1) outdoor **recreation**, (2) **recreation** of the homeland

Basketball is their usual **recreation** after school.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym : accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

replacement

n. the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another

synonym : alternate, substitute, backup

(1) regular **replacement** of tires, (2) **replacement** cost

We demand his **replacement**.

therapy

n. the act of caring for someone through medication, remedial training, etc.

synonym: antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**

I underwent aversion **therapy** for my addiction to alcohol.

garbage

n. waste material, especially food waste and kitchen refuse

synonym: waste, trash, debris

(1) **garbage** collection, (2) lump of **garbage**

The **garbage** truck will be coming to pick up the trash every Monday morning.

patch

n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose

synonym: mend, repair, fix

(1) **patch** of grass, (2) software **patch**

I need to sew a **patch** onto my jeans that ripped.

microplastic

n. tiny plastic fragments in the environment originating from consumer products and industrial waste

(1) **microplastic** particle, (2) **microplastic** pollution in the sea

Several scholars have pointed out that inhalation of **microplastics** may have adverse effects on the human body.

upset

adj. causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry

synonym: disturbed, bothered, resentful

(1) get **upset**, (2) have an **upset** stomach

He was awfully **upset** by the news.

degrade

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no

value and do not have the respect or reasonable opinion of others

synonym : demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

discovery

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

synonym : finding, uncovering, detection

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

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

underway

adj. having started and currently in progress

synonym : afoot, ongoing, in motion

(1) just getting **underway**, (2) campaign now **underway**

This project has been **underway** for several years.

optimize

v. to make the best or most effective use of something

synonym : advance, amend, improve

(1) **optimize** a process, (2) **optimize** control for cooling

The essence of economics is to **optimize** the allocation of limited resources.

petroleum

n. a flammable liquid consisting of a complex mixture of hydrocarbons that occurs naturally in certain rock formations and can also be refined to produce fuels such as gasoline, diesel, and jet fuel

synonym : oil, crude oil, fossil fuel

(1) liquefied **petroleum** gas, (2) crude **petroleum**

The country's economy relies heavily on its **petroleum** industry.

biodegrade

v. to decay naturally by microorganisms, such as bacteria and fungi

(1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

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.

greenhouse

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

synonym: conservatory

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

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

methane

n. a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel

(1) atmospheric **methane**, (2) reduce **methane** emissions

The ignition of **methane** gas in the plant killed five employees.

nit

n. the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person

(1) **nit** in the dog's fur, (2) she is a little **nit**

Careful brushing can remove **nit**.

doubt

n. a feeling of being uncertain about something, especially about how good or accurate it is

synonym: distrust, suspect, mistrust

(1) dispel **doubts**, (2) no **doubt** about the news

Doubt is the start, not the end, of intelligence.

tackle

v. to try to deal with a complex problem or situation
synonym: deal with, dive into, work on

(1) **tackle** the issue, (2) help **tackle** climate change

The government is determined to **tackle** sharp inflation.

clarify

v. to make something, such as a statement or situation, less confusing and more understandable

synonym: explain, ascribe, purify

(1) **clarify** a goal, (2) **clarify** his feelings

The police tried to **clarify** the facts concerning her death.

chowhound

n. a person who enjoys eating and has a hearty appetite; a dog that eats eagerly and without discrimination

synonym: foodie, gourmet, glutton

(1) **chowhound's** paradise, (2) avid **chowhound**

As a self-proclaimed **chowhound**, I was thrilled to attend a food festival featuring international cuisines.

chew

v. to crush or grind something, especially food, with the teeth and then swallow it

synonym: masticate, crush, grind

(1) **chew** each word, (2) **chew** a stick of gum

My dog loves to **chew** on bones.

footprint

n. a mark of a foot, shoe, or animal's foot left on a surface

synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym: imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

crossroad

n. a place where two or more roads or paths cross or intersect; a point of decision or choice, often involving significant consequences

synonym: intersection, junction, fork

(1) critical **crossroad**, (2) major **crossroad**

I'm at a career **crossroads** and unsure which path to take.

outdoors

adv. in or into the open air; outside a building or structure

synonym: outside, al fresco, in the open air

(1) exhausted **outdoors**, (2) sleep **outdoors**

She loves to hike **outdoors** and explore nature.

amazing

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

synonym: exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

Session 2: Spelling

- | | | |
|------------------------------------|------|--|
| 1. dem_____te mastery | v. | to display something or give an exhibition to an interested audience |
| 2. field of artificial int_____nce | n. | the ability to learn, comprehend, or make judgments or conclusions based on reasons |
| 3. cl_____y his feelings | v. | to make something, such as a statement or situation, less confusing and more understandable |
| 4. op_____ze a process | v. | to make the best or most effective use of something |
| 5. id_____ty as an individual | n. | the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another |
| 6. hemoglobin met_____sm | n. | the set of chemical reactions in cells or organisms that are necessary for life-sustaining |
| 7. ty_____l leader | adj. | having the usual characteristics or traits of a specific group of things |
| 8. la_____r job | n. | a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks |
| 9. phe_____ria test | n. | a genetic disorder that causes a build-up of phenylalanine (= an essential amino acid) in the body and can lead to intellectual disability, behavioral problems, seizures, and other physical and mental health issues |

ANSWERS: 1. demonstrate, 2. intelligence, 3. clarify, 4. optimize, 5. identity, 6. metabolism, 7. typical, 8. laborer, 9. phenylketonuria

- | | |
|-----------------------------------|--|
| 10. al_____y treatment | <i>n.</i> a hypersensitivity disorder of the immune system, characterized by an exaggerated response to certain allergens, such as pollens, foods, and drugs |
| 11. the ch_____ry of soil | <i>n.</i> the branch of the natural sciences dealing with the composition of substances and their properties and reactions |
| 12. in___t a graphic | <i>v.</i> to put something inside something else |
| 13. fr_____ce oil | <i>n.</i> a pleasant or sweet smell, especially one that is natural to a particular substance |
| 14. major pha_____cal companies | <i>adj.</i> relating to the production and selling of the medical drugs |
| 15. the con_____ce of an argument | <i>n.</i> the outcome of a particular action or event, especially relative to an individual |
| 16. med_____on by mouth | <i>n.</i> a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease |
| 17. man_____re an enzyme | <i>v.</i> to make goods in large numbers, usually in a factory using machines |
| 18. in___t food | <i>n.</i> a baby or very young child |
| 19. ta___e the issue | <i>v.</i> to try to deal with a complex problem or situation |
| 20. antibiotic med_____on | <i>n.</i> a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease |

ANSWERS: 10. allergy, 11. chemistry, 12. insert, 13. fragrance, 14. pharmaceutical, 15. consequence, 16. medication, 17. manufacture, 18. infant, 19. tackle, 20. medication

21. short video c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
22. dif_____ate between fact and fiction *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
23. exhausted ou_____rs *adv.* in or into the open air; outside a building or structure
24. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
25. upset st_____h *n.* the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach
26. st__n the carpet *v.* to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
27. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
28. botanical ex_____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

ANSWERS: 21. clip, 22. differentiate, 23. outdoors, 24. capture, 25. stomach, 26. stain, 27. extract, 28. extract

29. em_____e happiness *v.* to emit, send out something; to express a quality or feeling
30. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
31. z_p file *n.* a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently
32. the files are in complete di_____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
33. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
34. have an up__t stomach *adj.* causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry
35. juvenile di_____es *n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

ANSWERS: 29. emanate, 30. molecular, 31. zip, 32. disorder, 33. microbe, 34. upset, 35. diabetes

36. tw__t around to the left *v.* to bend or turn something into a certain shape
37. fresh cr_____ry *n.* a small, tart red berry often used in cooking or for its medicinal properties
38. g__w gold in the light *v.* to give out a steady, strong light
39. 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
40. business ho_____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
41. an introductory ch_____r *n.* a separate section of a written work usually numbered and titled
42. the event ho_____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
43. 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
44. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
45. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 36. twist, 37. cranberry, 38. glow, 39. protein, 40. horizon, 41. chapter, 42. horizon, 43. acid, 44. visualize, 45. microbe

46. double-st___d DNA *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
47. ti___r with the bill *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
48. am__o acid *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
49. 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)
50. retie the st___g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
51. c__p wood *v.* to cut something into pieces with a sharp tool, such as a knife
52. ye__t-leavened bread *n.* a type of fungus that is used in making alcoholic drinks such as beer and wine or to make bread rise
53. ca_____st for reform *n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

ANSWERS: 46. strand, 47. tinker, 48. amino, 49. phenylalanine, 50. string, 51. chop, 52. yeast, 53. catalyst

54. 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
55. bo__y area *adj.* containing a lot of soft, wet soil; marshy, swampy, or waterlogged
56. pe__l beyond price *n.* a hard, roundish object found within the shells of certain mollusks and used as a gem
57. c__y animation *n.* a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
58. architect's bl_____nt *n.* a photographic print of an early plan for a building or machine
59. silver ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
60. fo_____nts in the snow *n.* a mark of a foot, shoe, or animal's foot left on a surface
61. hand over a bo_____t *n.* a bunch of flowers, especially one presented as a gift or carried at a ceremony
62. ch_____in enzyme *n.* a protease enzyme found in the stomachs of young ruminant animals, used in the production of cheese to curdle milk and separate the curds and whey
63. de_____nt solution *n.* a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

ANSWERS: 54. tube, 55. boggy, 56. pearl, 57. clay, 58. blueprint, 59. oxide, 60. footprint, 61. bouquet, 62. chymosin, 63. detergent

64. pa__h of grass *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
65. sc__t memory *n.* a distinctive smell, especially a pleasant one
66. ca___n allergy *n.* a protein found in milk and cheese that is commonly used in the manufacture of plastics, glues, and other products
67. perfect mi_____e *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
68. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
69. di_____es patient *n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood
70. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
71. tense piano st____gs *n.* long, thin material used for tying things together, composed of several twisted threads
72. 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)

ANSWERS: 64. patch, 65. scent, 66. casein, 67. mixture, 68. chemistry, 69. diabetes, 70. discovery, 71. string, 72. phenylalanine

73. positive feedback l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
74. reduce me____e emissions *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
75. outdoor rec____on *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
76. ye__t cell *n.* a type of fungus that is used in making alcoholic drinks such as beer and wine or to make bread rise
77. pr__k up her ears *v.* to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication
78. send out the la____y *n.* the act of washing clothes and linens; a room or area where clothes are washed and ironed
79. skilled la____r *n.* a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks
80. ha____s a horse to a carriage *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 73. loop, 74. methane, 75. recreation, 76. yeast, 77. prick, 78. laundry, 79. laborer, 80. harness

81. de____te a chapter to the subject *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
82. dairy c_w *n.* a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat
83. she is a little n_t *n.* the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person
84. inactive ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
85. crude pe_____um *n.* a flammable liquid consisting of a complex mixture of hydrocarbons that occurs naturally in certain rock formations and can also be refined to produce fuels such as gasoline, diesel, and jet fuel
86. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
87. in___t daughter *n.* a baby or very young child
88. ap_____e a measures *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
89. the glow of a fi_____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark

ANSWERS: 81. dedicate, 82. cow, 83. nit, 84. machinery, 85. petroleum, 86. emit, 87. infant, 88. approve, 89. firefly

90. key performance me___cs *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
91. 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
92. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
93. young people no_____ys *adv.* at the current time, in comparison to the past
94. avid ch_____nd *n.* a person who enjoys eating and has a hearty appetite; a dog that eats eagerly and without discrimination
95. tie c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
96. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
97. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
98. li__c scent *n.* a small tree or shrub with fragrant purple or white flowers; the pale purplish or lavender color of the lilac flower

ANSWERS: 90. metric, 91. carbon, 92. emission, 93. nowadays, 94. chowhound, 95. clip, 96. incredibly, 97. patient, 98. lilac

99. ch_____r of a political party *n.* a separate section of a written work usually numbered and titled
100. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
101. rec_____on of the homeland *n.* the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
102. ba_____rk price *v.* a place or facility where baseball is played; a rough estimation of something
103. em_____e light *v.* to emit, send out something; to express a quality or feeling
104. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
105. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something
106. 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
107. get up__t *adj.* causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry

ANSWERS: 99. chapter, 100. process, 101. recreation, 102. ballpark, 103. emanate, 104. structure, 105. instruction, 106. abbreviation, 107. upset

108. me_____n name *v.* to speak or write about something or someone briefly
109. en___e reaction *n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
110. g__w a pale orange *v.* to give out a steady, strong light
111. cr_____ry sauce *n.* a small, tart red berry often used in cooking or for its medicinal properties
112. d__l up the volume *v.* to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called
113. phe_____ria diet *n.* a genetic disorder that causes a build-up of phenylalanine (= an essential amino acid) in the body and can lead to intellectual disability, behavioral problems, seizures, and other physical and mental health issues
114. c_w herd *n.* a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat
115. eff_____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
116. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something
117. a learning dis_____ty *n.* a physical or mental condition that makes it difficult for someone to do some things that other people do

ANSWERS: 108. mention, 109. enzyme, 110. glow, 111. cranberry, 112. dial, 113. phenylketonuria, 114. cow, 115. efficiently, 116. instruction, 117. disability

118. h__l wrestler *n.* the rounded back part of the foot below the ankle; someone who is morally reprehensible; (verb) to follow someone or something
119. alpha he__x *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
120. op_____ze control for cooling *v.* to make the best or most effective use of something
121. get ins_____on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
122. toxic ch_____als *adj.* relating to or connected with chemistry;
123. d__l down the tension *v.* to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called
124. rep_____nt cost *n.* the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another
125. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
126. di____t information *v.* to transform food into absorbable substances; break down
127. ch_____in production *n.* a protease enzyme found in the stomachs of young ruminant animals, used in the production of cheese to curdle milk and separate the curds and whey

ANSWERS: 118. heel, 119. helix, 120. optimize, 121. inspiration, 122. chemical, 123. dial, 124. replacement, 125. zoom, 126. digest, 127. chymosin

128. in___t food *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
129. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
130. am__o compound *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
131. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
132. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
133. make a cal_____on *n.* the act or process of using numbers to judge an amount of something
134. get r_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
135. bo__y land *adj.* containing a lot of soft, wet soil; marshy, swampy, or waterlogged
136. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 128. ingest, 129. environment, 130. amino, 131. evolve, 132. atom, 133. calculation, 134. rid, 135. boggy, 136. creative

137. he__x structure *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
138. 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
139. pearl ne____ce *n.* a piece of jewelry that is worn around the neck, typically consisting of a chain or cord with a pendant, charms, or beads attached
140. exotic plants in a gre____se *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in
141. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
142. laundry de____nt *n.* a substance used for washing or cleaning, especially one that can remove dirt or stains effectively
143. ga____e collection *n.* waste material, especially food waste and kitchen refuse
144. emissions of gre____se gases *n.* a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 137. helix, 138. tube, 139. necklace, 140. greenhouse, 141. process, 142. detergent, 143. garbage, 144. greenhouse

145. ti___r with the settings *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
146. r_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
147. human in_____ct *n.* the ability to think logically and comprehend information, especially at an advanced level
148. bio_____de by the microorganism *v.* to decay naturally by microorganisms, such as bacteria and fungi
149. unanimously ap_____e a resolution *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
150. critical cr_____ad *n.* a place where two or more roads or paths cross or intersect; a point of decision or choice, often involving significant consequences
151. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
152. lump of ga_____e *n.* waste material, especially food waste and kitchen refuse
153. atmospheric me_____e *n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
154. combined ox___e *n.* a chemical compound that contains at least one oxygen atom and one other element

ANSWERS: 145. tinker, 146. rid, 147. intellect, 148. biodegrade, 149. approve, 150. crossroad, 151. involve, 152. garbage, 153. methane, 154. oxide

155. pathogenic ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
156. pr__k a balloon *v.* to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication
157. tw__t a wet towel *v.* to bend or turn something into a certain shape
158. mic____tic particle *n.* tiny plastic fragments in the environment originating from consumer products and industrial waste
159. help ta___e climate change *v.* to try to deal with a complex problem or situation
160. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
161. de____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
162. ga___e away my fortune *v.* to take risky action in the hope of being successful; to play or game for money or other stakes

ANSWERS: 155. bacteria, 156. prick, 157. twist, 158. microplastic, 159. tackle, 160. addition, 161. develop, 162. gamble

163. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
164. de____e his public image *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
165. cal_____on of loss and gain *n.* the act or process of using numbers to judge an amount of something
166. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
167. si___r until water evaporates *v.* to cook food over low heat in a liquid, maintaining a temperature just below boiling point; to be filled with a low level of intense emotion; to be on the verge of expressing strong feelings
168. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
169. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
170. not to be seen no_____ys *adv.* at the current time, in comparison to the past
171. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
172. unintended con_____ces *n.* the outcome of a particular action or event, especially relative to an individual

ANSWERS: 163. slice, 164. degrade, 165. calculation, 166. environment, 167. simmer, 168. amazing, 169. accelerate, 170. nowadays, 171. emission, 172. consequence

173. human ev_____on *n.* a gradual process of transformation of living things
174. b__d the man's hands *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
175. put a ha_____s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
176. software pa__h *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
177. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
178. re_____ge his schedule *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
179. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
180. ga___e \$100 on the race *v.* to take risky action in the hope of being successful; to play or game for money or other stakes
181. gr_____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

ANSWERS: 173. evolution, 174. bind, 175. harness, 176. patch, 177. molecular, 178. rearrange, 179. metabolism, 180. gamble, 181. graduate

182. the DNA se____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
183. help di____t food *v.* to transform food into absorbable substances; break down
184. th____y for a patient *n.* the act of caring for someone through medication, remedial training, etc.
185. sc____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
186. vi____ze flying through space *v.* to form a mental image or concept of something; to make something visible
187. no do__t about the news *n.* a feeling of being uncertain about something, especially about how good or accurate it is
188. ca____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
189. h__l bone *n.* the rounded back part of the foot below the ankle; someone who is morally reprehensible; (verb) to follow someone or something
190. la____y room *n.* the act of washing clothes and linens; a room or area where clothes are washed and ironed
191. e__t a video *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
192. ch__m against bad luck *n.* the power or quality of pleasing or fascinating people

ANSWERS: 182. sequence, 183. digest, 184. therapy, 185. scratch, 186. visualize, 187. doubt, 188. capture, 189. heel, 190. laundry, 191. edit, 192. charm

193. a st___d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
194. letters of an al____et *n.* a character set that includes letters and is used to write a language
195. bl____nt for economic reform *n.* a photographic print of an early plan for a building or machine
196. lavender fr____ce *n.* a pleasant or sweet smell, especially one that is natural to a particular substance
197. equ____nt amounts *n.* having the same value, quality, meaning, purpose, etc.
198. a hand-loomed fa___c *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
199. exit from a l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
200. in___t medication *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
201. sleep ou____rs *adv.* in or into the open air; outside a building or structure
202. ripe pi____le *n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack

ANSWERS: 193. strand, 194. alphabet, 195. blueprint, 196. fragrance, 197. equivalent, 198. fabric, 199. loop, 200. ingest, 201. outdoors, 202. pineapple

203. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
204. sparkle like fi_____y *n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark
205. a ca_____st in the process of hydrolysis *n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself
206. to__c molecule *adj.* of or relating to or caused by a poison; poisonous
207. c__w a stick of gum *v.* to crush or grind something, especially food, with the teeth and then swallow it
208. start to cu_____e in the hot sun *v.* to separate or cause to separate into solid lumps, particularly as a result of spoilage or by the addition of an acidic substance; to cause someone to feel uncomfortable or uneasy
209. the pelvic b__m *n.* the top edge of a cup, bowl, or other containers; a circular projecting edge at the bottom of a hat
210. de_____te a few hours *v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use
211. literature of pe_____nt value *adj.* lasting for a long time without essential change

ANSWERS: 203. manufacture, 204. firefly, 205. catalyst, 206. toxic, 207. chew, 208. curdle, 209. brim, 210. dedicate, 211. permanent

212. enrich my in_____ct
n. the ability to think logically and comprehend information, especially at an advanced level
213. just getting un_____ay
adj. having started and currently in progress
214. liquefied pe_____um gas
n. a flammable liquid consisting of a complex mixture of hydrocarbons that occurs naturally in certain rock formations and can also be refined to produce fuels such as gasoline, diesel, and jet fuel
215. 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
216. beaded ne_____ce
n. a piece of jewelry that is worn around the neck, typically consisting of a chain or cord with a pendant, charms, or beads attached
217. mu__y air
adj. uncomfortably warm and humid, with a sense of dampness in the air; oppressive or damp in the atmosphere or feeling
218. con_____ion form
n. the shape or structure of something, particularly an organism's physical or anatomical structure; agreement, correspondence, or conformity to a certain standard, pattern, or expectation
219. ad_____on of vectors
n. the act or process of adding something to something else; the process of adding numbers

ANSWERS: 212. intellect, 213. underway, 214. petroleum, 215. acid, 216. necklace, 217. muggy, 218. conformation, 219. addition

220. habitual rep_____on *n.* the act of doing or saying something many times
221. heavy ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
222. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
223. field of gene th_____y *n.* the act of caring for someone through medication, remedial training, etc.
224. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
225. honor gr_____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
226. lack of digestive en_____es *n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
227. natural sc__t *n.* a distinctive smell, especially a pleasant one
228. regular rep_____nt of tires *n.* the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another
229. p__p stick *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

ANSWERS: 220. repetition, 221. machinery, 222. involve, 223. therapy, 224. zoom, 225. graduate, 226. enzyme, 227. scent, 228. replacement, 229. prop

230. rep_____on of the word
n. the act of doing or saying something many times
231. a ch_____al compound
adj. relating to or connected with chemistry;
232. jazz imp_____ion
n. the act of making something up on the spot or creating or performing something without preparation
233. ext_____te animal dose
v. to guess or think about what might happen or estimate something using the facts that you have now
234. red wine st__n
v. to discolor, defile, or tarnish something; (noun) a discoloration or dirty mark on a surface that is difficult to remove
235. soft c__y ground
n. a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
236. the mouth of a b_y
n. a part of the coast that is partially enclosed by land; a compartment or section of a ship or building
237. me_____n in a report
v. to speak or write about something or someone briefly
238. ar_____e the meeting
v. to plan, prepare for, and carry out something
239. c__p a meet with a knife
v. to cut something into pieces with a sharp tool, such as a knife
240. emotional p__p
n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

ANSWERS: 230. repetition, 231. chemical, 232. improvisation, 233. extrapolate, 234. stain, 235. clay, 236. bay, 237. mention, 238. arrange, 239. chop, 240. prop

241. z_p code *n.* a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently
242. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
243. pe_____nt life insurance *adj.* lasting for a long time without essential change
244. mu__y summer *adj.* uncomfortably warm and humid, with a sense of dampness in the air; oppressive or damp in the atmosphere or feeling
245. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
246. ev_____on theory *n.* a gradual process of transformation of living things
247. micellar ca___n *n.* a protein found in milk and cheese that is commonly used in the manufacture of plastics, glues, and other products
248. a dis_____ty pension *n.* a physical or mental condition that makes it difficult for someone to do some things that other people do
249. baby c__f *n.* a young cow, bull, or other domestic bovine animals

ANSWERS: 241. zip, 242. efficiently, 243. permanent, 244. muggy, 245. improvisation, 246. evolution, 247. casein, 248. disability, 249. calf

250. trigger a re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
251. re_____ge the furniture *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
252. the cy__e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
253. a n__t piece of work *adj.* clean or tidy, with everything in its place
254. de_____e environmental quality *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
255. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
256. dispel do__ts *n.* a feeling of being uncertain about something, especially about how good or accurate it is
257. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
258. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
259. sc__y story *adj.* causing fear or fright; frightening; intimidating
260. me____c units *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

ANSWERS: 250. reaction, 251. rearrange, 252. cycle, 253. neat, 254. degrade, 255. sequence, 256. doubt, 257. amazing, 258. emit, 259. scary, 260. metric

261. make his blood cu___e *v.* to separate or cause to separate into solid lumps, particularly as a result of spoilage or by the addition of an acidic substance; to cause someone to feel uncomfortable or uneasy
262. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
263. st_____h virus *n.* the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach
264. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
265. bridal bo_____t *n.* a bunch of flowers, especially one presented as a gift or carried at a ceremony
266. a c__f elephant *n.* a young cow, bull, or other domestic bovine animals
267. cl_____y a goal *v.* to make something, such as a statement or situation, less confusing and more understandable
268. ext_____te the results *v.* to guess or think about what might happen or estimate something using the facts that you have now
269. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 261. curdle, 262. equivalent, 263. stomach, 264. intelligence, 265. bouquet, 266. calf, 267. clarify, 268. extrapolate, 269. structure

270. 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
271. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
272. sc___y dream *adj.* causing fear or fright; frightening; intimidating
273. con_____ion analysis *n.* the shape or structure of something, particularly an organism's physical or anatomical structure; agreement, correspondence, or conformity to a certain standard, pattern, or expectation
274. mic_____tic pollution in the sea *n.* tiny plastic fragments in the environment originating from consumer products and industrial waste
275. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
276. dif_____ate a function *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
277. c___w each word *v.* to crush or grind something, especially food, with the teeth and then swallow it
278. an al_____et of manual signs *n.* a character set that includes letters and is used to write a language

ANSWERS: 270. protein, 271. patient, 272. scary, 273. conformation, 274. microplastic, 275. typical, 276. differentiate, 277. chew, 278. alphabet

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|--|-------------|--|
| 279. de_____p a skill | <i>v.</i> | to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created |
| 280. chemical re_____on | <i>n.</i> | a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others |
| 281. ev___e over the past decade | <i>v.</i> | to develop gradually, or to cause the development of something or someone gradually |
| 282. b_y area | <i>n.</i> | a part of the coast that is partially enclosed by land; a compartment or section of a ship or building |
| 283. major-league ba_____rk | <i>v.</i> | a place or facility where baseball is played; a rough estimation of something |
| 284. fa___c of creation | <i>n.</i> | cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc. |
| 285. the list was ar_____ed alphabetically | <i>v.</i> | to plan, prepare for, and carry out something |
| 286. n__t idea | <i>adj.</i> | clean or tidy, with everything in its place |
| 287. sl__e a tomato thin | <i>n.</i> | a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting |
| 288. in___t coin | <i>v.</i> | to put something inside something else |

ANSWERS: 279. develop, 280. reaction, 281. evolve, 282. bay, 283. ballpark, 284. fabric, 285. arrange, 286. neat, 287. slice, 288. insert

289. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
290. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
291. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
292. the b__m of a hat *n.* the top edge of a cup, bowl, or other containers; a circular projecting edge at the bottom of a hat
293. mistaken id_____ty *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
294. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
295. n_t in the dog's fur *n.* the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person
296. canned pi_____le *n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
297. blooming li__c *n.* a small tree or shrub with fragrant purple or white flowers; the pale purplish or lavender color of the lilac flower

ANSWERS: 289. incredibly, 290. atom, 291. bacteria, 292. brim, 293. identity, 294. scratch, 295. nit, 296. pineapple, 297. lilac

298. source of ins_____on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
299. people with bipolar di_____er *n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions
300. si____r in her mind for years *v.* to cook food over low heat in a liquid, maintaining a temperature just below boiling point; to be filled with a low level of intense emotion; to be on the verge of expressing strong feelings
301. major cr_____ad *n.* a place where two or more roads or paths cross or intersect; a point of decision or choice, often involving significant consequences
302. currency abb_____ion *n.* a shortened form of a word or phrase used to represent the whole, typically for ease of use
303. ch_____nd's paradise *n.* a person who enjoys eating and has a hearty appetite; a dog that eats eagerly and without discrimination
304. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
305. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 298. inspiration, 299. disorder, 300. simmer, 301. crossroad, 302. abbreviation, 303. chowhound, 304. cycle, 305. discovery

306. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
307. food al_____y *n.* a hypersensitivity disorder of the immune system, characterized by an exaggerated response to certain allergens, such as pollens, foods, and drugs
308. campaign now un_____ay *adj.* having started and currently in progress
309. exposure to to__c chemicals *adj.* of or relating to or caused by a poison; poisonous
310. bioplastic designed to bio_____de *v.* to decay naturally by microorganisms, such as bacteria and fungi
311. commercial pha_____cal products *adj.* relating to the production and selling of the medical drugs
312. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
313. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
314. e__t a history book *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
315. b__d old letters into a bundle *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

ANSWERS: 306. demonstrate, 307. allergy, 308. underway, 309. toxic, 310. biodegrade, 311. pharmaceutical, 312. mixture, 313. creative, 314. edit, 315. bind

316. 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
317. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
318. the fo_____nts of an earlier civilization *n.* a mark of a foot, shoe, or animal's foot left on a surface
319. masculine ch__m *n.* the power or quality of pleasing or fascinating people
320. a cultured pe__l *n.* a hard, roundish object found within the shells of certain mollusks and used as a gem

ANSWERS: 316. carbon, 317. accelerate, 318. footprint, 319. charm, 320. pearl

Session 3: Fill in the Blanks

1. It'll be somewhere in the _____ of \$100.
 - v. a place or facility where baseball is played; a rough estimation of something
2. People have been exploring ways to _____ natural forces and resources since ancient times.
 - v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
3. The glass was filled to the _____ with beer.
 - n. the top edge of a cup, bowl, or other containers; a circular projecting edge at the bottom of a hat
4. The _____ truck will be coming to pick up the trash every Monday morning.
 - n. waste material, especially food waste and kitchen refuse
5. We do move forward with those tasks in _____ next week.
 - n. a series of related events, actions, numbers, etc., which have a particular order
6. The _____ of the roses filled the air and brought a smile to my face.
 - n. a pleasant or sweet smell, especially one that is natural to a particular substance
7. The sun was setting, and the sky _____ with beautiful colors.
 - v. to give out a steady, strong light
8. The _____ effect is a phenomenon that happens naturally.
 - n. a building with walls and roof made chiefly of transparent material, such as glass, for growing plants in

ANSWERS: 1. ballpark, 2. harness, 3. brim, 4. garbage, 5. sequence, 6. fragrance, 7. glowed, 8. greenhouse

9. The ignition of _____ gas in the plant killed five employees.
- n.* a chemical compound with the chemical formula CH₄ with no smell or color, often used as a fuel
10. The pharmacist not only prescribes the _____ but also guides its proper use.
- n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
11. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
12. Please _____ these files as we start a new project tomorrow.
- v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
13. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
14. 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
15. The _____ of audit formally issued a business improvement order.
- n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

ANSWERS: 9. methane, 10. medication, 11. Bacteria, 12. rearrange, 13. evolved, 14. environment, 15. machinery

16. The sculptor carefully molded the _____ into the desired shape.
- n.* a natural, earthy material that is made up of very small particles of minerals and can be molded when wet and then fired to produce ceramics
17. Better sleep leads to increased _____.
- n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
18. The government tried to _____ the commercialization of this development.
- v.* to make something faster or earlier; to cause to develop or progress more quickly
19. _____ thrive on the surface of the human skin.
- n.* a tiny living thing that can only be seen with a microscope and that may cause disease
20. The outermost electron shell of an _____ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
21. Many employers hire _____ trainees to train as managers.
- n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
22. He fastens some sheets of paper with a _____.
- n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
23. The company's rules _____ the employee's working hours.
- v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

ANSWERS: 16. clay, 17. metabolism, 18. accelerate, 19. Microbes, 20. atom, 21. graduate, 22. clip, 23. bind

24. Will you _____ on the result of the fight?

- v. to take risky action in the hope of being successful; to play or game for money or other stakes

25. 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

26. He accidentally _____ his finger with the needle.

- v. to make a small hole or puncture or to cause a slight, sharp pain; to stimulate or provoke a reaction or response; to use needles to administer a vaccine or medication

27. The European Central Bank is Europe's _____ of the Federal Reserve.

- n. having the same value, quality, meaning, purpose, etc.

28. How can you _____ that the earth is a sphere?

- v. to display something or give an exhibition to an interested audience

29. We demand his _____.

- n. the act of replacing something with something else, especially that is newer or better; a person or thing that takes or can take the place of another

30. The children complained because one _____ of cake was slightly larger than the other.

- n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

31. Listening to music at a high volume may lead to a hearing _____.

- n. a physical or mental condition that makes it difficult for someone to do some things that other people do

ANSWERS: 24. gamble, 25. capture, 26. pricked, 27. equivalent, 28. demonstrate, 29. replacement, 30. slice, 31. disability

32. He gave her a _____ of roses as a gift.
n. a bunch of flowers, especially one presented as a gift or carried at a ceremony
33. 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
34. The doctor carefully examined the _____ medical history.
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
35. She gave money to help set up a _____ laboratory.
adj. relating to the production and selling of the medical drugs
36. I need to buy some _____ juice for the recipe I'm making.
n. a small, tart red berry often used in cooking or for its medicinal properties
37. She loves to hike _____ and explore nature.
adv. in or into the open air; outside a building or structure
38. Newborns with _____ must follow a strict diet to prevent any negative effects on their health.
n. a genetic disorder that causes a build-up of phenylalanine (= an essential amino acid) in the body and can lead to intellectual disability, behavioral problems, seizures, and other physical and mental health issues
39. I need to sew a _____ onto my jeans that ripped.
n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose

ANSWERS: 32. bouquet, 33. amino, 34. patient's, 35. pharmaceutical, 36. cranberry, 37. outdoors, 38. phenylketonuria, 39. patch

40. In _____ private corporations provide healthcare services.

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

41. My dog loves to _____ on bones.

v. to crush or grind something, especially food, with the teeth and then swallow it

42. The fragrance of flowers _____ from the garden.

v. to emit, send out something; to express a quality or feeling

43. The golfer recorded an _____ distance.

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

44. She put her phone in the _____ pocket of her backpack.

n. a fastener made of interlocking teeth or ridges that is used to join two edges or pieces of fabric; a sound or motion that resembles the sound made by a zipper when it is pulled; (of a computer) a popular file compression and archiving format; (short for Zone Improvement Plan) a system of postal codes used in the United States to help facilitate mail delivery more efficiently

45. _____ weight is the sum of all the atoms.

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

46. 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

47. A business plan is a _____ for your success.

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

ANSWERS: 40. addition, 41. chew, 42. emanated, 43. amazing, 44. zip, 45. Molecular, 46. tube, 47. blueprint

48. People can clone a sheep _____.

adv. at the current time, in comparison to the past

49. The paint was a _____ of different pigments to achieve the desired color.

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

50. He found _____ in the works of his favorite authors.

n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

51. All the supervisor has to do is assign tasks that make his subordinates more _____.

adj. relating to or involving the use of skill and original and unusual ideas to create something

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

n. the power or quality of pleasing or fascinating people

53. He _____ back in time to the soccer game.

v. to move along very quickly; (noun) the act of rising upward into the air

54. He was awfully _____ by the news.

adj. causing or marked by anxiety, uneasiness, trouble, or grief; (verb) to make someone anxious, unhappy, or angry

55. The newborn _____ stood on wobbly legs, trying to find its mother's milk.

n. a young cow, bull, or other domestic bovine animals

ANSWERS: 48. nowadays, 49. mixture, 50. inspiration, 51. creative, 52. charm, 53. zoomed, 54. upset, 55. calf

56. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
57. We have finally lost our last _____.
- n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
58. The error in the _____ was attributable to rounding.
- n.* the act or process of using numbers to judge an amount of something
59. If you add lemon juice to milk, it will _____ and form chunks.
- v.* to separate or cause to separate into solid lumps, particularly as a result of spoilage or by the addition of an acidic substance; to cause someone to feel uncomfortable or uneasy
60. The bodybuilder consumes a scoop of _____ protein before bedtime to fuel muscle growth and recovery overnight.
- n.* a protein found in milk and cheese that is commonly used in the manufacture of plastics, glues, and other products
61. Several scholars have pointed out that inhalation of _____ may have adverse effects on the human body.
- n.* tiny plastic fragments in the environment originating from consumer products and industrial waste
62. The _____ of freshly baked bread filled the bakery.
- n.* a distinctive smell, especially a pleasant one

ANSWERS: 56. reaction, 57. prop, 58. calculation, 59. curdle, 60. casein, 61. microplastics, 62. scent

63. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
64. We choose transportation that has a smaller carbon _____.
- n.* a mark of a foot, shoe, or animal's foot left on a surface
65. The farmer milked the _____ every morning before breakfast.
- n.* a domesticated mammal with characteristic features such as a hump, large udders, and curved horns that is raised for its milk or meat
66. She _____ a new chapter into her manuscript.
- v.* to put something inside something else
67. The majority of synthetic vitamins are _____ from oil.
- v.* to make goods in large numbers, usually in a factory using machines
68. The final _____ provides a summary of the discussion.
- n.* a separate section of a written work usually numbered and titled
69. This artwork is _____ of her work.
- adj.* having the usual characteristics or traits of a specific group of things
70. The cook _____ the vegetables for the soup.
- v.* to cut something into pieces with a sharp tool, such as a knife
71. These economic activities had disastrous environmental _____.
- n.* the outcome of a particular action or event, especially relative to an individual

ANSWERS: 63. process, 64. footprint, 65. cows, 66. inserted, 67. manufactured, 68. chapter, 69. typical, 70. chopped, 71. consequences

72. The DNA molecule is shaped like a double _____.
- n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
73. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
74. They study the _____ of the universe.
- n.* a gradual process of transformation of living things
75. A deficiency in the _____ can lead to a medical condition.
- n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
76. We can resolve support requests quickly and _____ by utilization of AI.
- adv.* in a way that produces maximum output with minimum effort or expense
77. 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
78. She tried to _____ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
79. I _____ to him that I had seen his sister at the grocery store earlier that day.
- v.* to speak or write about something or someone briefly
80. The doctor prescribed some medicine for the mental _____.
- n.* an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

ANSWERS: 72. helix, 73. chemical, 74. evolution, 75. enzyme, 76. efficiently, 77. involves, 78. visualize, 79. mentioned, 80. disorder

81. I underwent aversion _____ for my addiction to alcohol.
n. the act of caring for someone through medication, remedial training, etc.
82. My boss wouldn't _____ of the plan.
v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
83. This chemical compound is a thousand-fold more _____.
adj. of or relating to or caused by a poison; poisonous
84. Basketball is their usual _____ after school.
n. the activity that renews your health and spirits by enjoyment and relaxation; the act or process of making something that existed in the past exists or seems to exist again in a different time or place
85. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
86. 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
87. Your _____ is capable of distinguishing among similar objects.
n. the ability to think logically and comprehend information, especially at an advanced level
88. He created a beautiful piece of music using only _____.
n. the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 81. therapy, 82. approve, 83. toxic, 84. recreation, 85. structure, 86. acid, 87. intellect, 88. improvisation

89. I love to eat fresh _____ in my fruit salad.

- n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack

90. The company's plastic products are easily _____ thanks to a unique manufacturing process.

- v.* to decay naturally by microorganisms, such as bacteria and fungi

91. There are five distinct _____ at five unique wavelengths.

- n.* the act of production or sending out gas, heat, light, etc.

92. Mozart was an _____ prodigy.

- n.* a baby or very young child

93. He is familiar with _____ and biology.

- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

94. The police tried to _____ the facts concerning her death.

- v.* to make something, such as a statement or situation, less confusing and more understandable

95. 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)

96. He _____ his life to helping others.

- v.* to give all of your energy, time, etc., entirely to a specific person, activity, or cause; to set apart for a particular purpose or use

ANSWERS: 89. pineapple, 90. biodegraded, 91. emissions, 92. infant, 93. chemistry, 94. clarify, 95. phenylalanine, 96. dedicated

97. The essence of economics is to _____ the allocation of limited resources.
v. to make the best or most effective use of something
98. The teacher asked the students to _____ between the two similar species of birds.
v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
99. The use of _____ in cheese production has decreased the need for animal rennet.
n. a protease enzyme found in the stomachs of young ruminant animals, used in the production of cheese to curdle milk and separate the curds and whey
100. I need to _____ this document before submitting it to my boss.
v. to prepare written material for publication by correcting, condensing, or otherwise modifying it
101. The horror movie was so _____ that I couldn't watch it alone.
adj. causing fear or fright; frightening; intimidating
102. I need to do the _____ before I run out of clean clothes.
n. the act of washing clothes and linens; a room or area where clothes are washed and ironed
103. Careful brushing can remove _____.
n. the egg of a louse (= that is a tiny insect that lives in human hair) or some other insect; a foolish person
104. In the _____ system, measurements are made in meters and liters.
adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

ANSWERS: 97. optimize, 98. differentiate, 99. chymosin, 100. edit, 101. scary, 102. laundry, 103. nit, 104. metric

105. She received a beautiful _____ from her grandmother as a birthday gift.
- n.* a piece of jewelry that is worn around the neck, typically consisting of a chain or cord with a pendant, charms, or beads attached
106. She wore high _____ to the party.
- n.* the rounded back part of the foot below the ankle; someone who is morally reprehensible; (verb) to follow someone or something
107. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.
- n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
108. He spent the afternoon _____ with his car engine.
- v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
109. She has _____ habits.
- adj.* clean or tidy, with everything in its place
110. I'm at a career _____ and unsure which path to take.
- n.* a place where two or more roads or paths cross or intersect; a point of decision or choice, often involving significant consequences
111. 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
112. In terms of _____ he was head and shoulders above his classmates.
- n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 105. necklace, 106. heels, 107. horizon, 108. tinkering, 109. neat, 110. crossroads, 111. protein, 112. intelligence,

113. He _____ the phone number and waited for an answer.

- v.* to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called

114. Don't _____ your mosquito bites.

- v.* to cut or damage the surface of something or the skin with a sharp or pointed object

115. Several cities are experiencing _____ high unemployment rates.

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

116. _____ is the start, not the end, of intelligence.

- n.* a feeling of being uncertain about something, especially about how good or accurate it is

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

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

118. The _____ test helped to determine the cause of her symptoms.

- n.* a hypersensitivity disorder of the immune system, characterized by an exaggerated response to certain allergens, such as pollens, foods, and drugs

119. These synthetic _____ are used in military vests because of their excellent abrasion resistance.

- n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

120. In that country, there is a culture of eating live _____ squid.

- n.* a flying nocturnal insect common in warm regions with a tail that shines in the dark

ANSWERS: 113. dialed, 114. scratch, 115. incredibly, 116. Doubt, 117. emits, 118. allergy, 119. fabrics, 120. firefly

121. Most babies can readily _____ a wide variety of foods.

v. to transform food into absorbable substances; break down

122. People who compulsively _____ non-food items, such as dirt or chalk, suffer from a condition called pica.

v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

123. This project has been _____ for several years.

adj. having started and currently in progress

124. 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

125. _____ is the mother of all learning.

n. the act of doing or saying something many times

126. This predictive model mechanically _____ past trends into the future.

v. to guess or think about what might happen or estimate something using the facts that you have now

127. She wore a _____ necklace passed down to her from her grandmother.

n. a hard, roundish object found within the shells of certain mollusks and used as a gem

128. The _____ of the protein is crucial to its function.

n. the shape or structure of something, particularly an organism's physical or anatomical structure; agreement, correspondence, or conformity to a certain standard, pattern, or expectation

ANSWERS: 121. digest, 122. ingest, 123. underway, 124. abbreviation, 125. Repetition, 126. extrapolates, 127. pearl, 128. conformation

129. He strove to memorize the Hebrew _____.

n. a character set that includes letters and is used to write a language

130. She wore a _____ of pearls around her neck.

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

131. We must ____ ourselves of pollution.

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

132. The terrorist's _____ remains unknown.

n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another

133. My father was tested for _____.

n. a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

134. The soup must _____ for at least an hour for all the flavors to blend.

v. to cook food over low heat in a liquid, maintaining a temperature just below boiling point; to be filled with a low level of intense emotion; to be on the verge of expressing strong feelings

135. The beautiful _____ bush in my yard blooms every spring.

n. a small tree or shrub with fragrant purple or white flowers; the pale purplish or lavender color of the lilac flower

136. 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: 129. alphabet, 130. string, 131. rid, 132. identity, 133. diabetes, 134. simmer, 135. lilac, 136. carbon

137. The hot and _____ weather made it difficult to breathe.

adj. uncomfortably warm and humid, with a sense of dampness in the air; oppressive or damp in the atmosphere or feeling

138. I heard several melodic _____ simultaneously.

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

139. They needed further _____ to perform their duties efficiently.

n. detailed direction, order, etc., on how to do or use something

140. I need to _____ plans with him for the celebration.

v. to plan, prepare for, and carry out something

141. The food chain causes a material _____.

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

142. They carefully nurture a _____ fungus used to produce sake.

n. a type of fungus that is used in making alcoholic drinks such as beer and wine or to make bread rise

143. You should not _____ yourself by allowing them to use you.

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

144. The government is determined to _____ sharp inflation.

v. to try to deal with a complex problem or situation

ANSWERS: 137. muggy, 138. strands, 139. instruction, 140. arrange, 141. cycle, 142. yeast, 143. degrade, 144. tackle

145. Many people in this city use the _____ railway for transportation.

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

146. The construction site hired many _____ to help with the heavy lifting.

n. a person who works hard physically, typically doing unskilled or manual labor; a worker or employee who performs physically demanding tasks

147. The country's economy relies heavily on its _____ industry.

n. a flammable liquid consisting of a complex mixture of hydrocarbons that occurs naturally in certain rock formations and can also be refined to produce fuels such as gasoline, diesel, and jet fuel

148. Anesthetize the gum before _____ the teeth.

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

149. I have a _____ ache after overeating junk food.

n. the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach

150. She walked along the _____ and collected shells.

n. a part of the coast that is partially enclosed by land; a compartment or section of a ship or building

151. As a self-proclaimed _____ I was thrilled to attend a food festival featuring international cuisines.

n. a person who enjoys eating and has a hearty appetite; a dog that eats eagerly and without discrimination

ANSWERS: 145. loop, 146. laborers, 147. petroleum, 148. extracting, 149. stomach, 150. bay, 151. chowhound,

152. The allegations of corruption _____ her reputation, and she struggled to regain public trust.

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

153. The blood's red coloring comes from iron _____.

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

154. He _____ pieces of rope out of straw.

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

155. She is searching for a _____ residence.

- adj.* lasting for a long time without essential change

156. The trail through the forest was so _____ that our shoes became soaked.

- adj.* containing a lot of soft, wet soil; marshy, swampy, or waterlogged

157. We must _____ a new system to streamline our workflow and increase efficiency.

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

158. Her research team made an important _____.

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

159. I use environmentally friendly _____ when I wash my clothes and dishes.

- n.* a substance used for washing or cleaning, especially one that can remove dirt or stains effectively

ANSWERS: 152. stained, 153. oxide, 154. twisted, 155. permanent, 156. boggy, 157. develop, 158. discovery, 159. detergent

160. The global financial crisis acted as a _____ to unite the country.

- n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

ANSWERS: 160. catalyst