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Vocabulary Builder Reference from...

Grégoire Courtine: The paralyzed rat that walked | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

neuroscience

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

(1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**

The company's hiring criteria emphasize personality, not a person's **background**.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

medicinal

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

synonym: curative, therapeutic, healing

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

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

lab *n.* a workplace for the conduct of scientific research; a laboratory
synonym: workshop, laboratory, research chamber

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

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

federal *adj.* relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level

synonym: national, central, governmental

(1) **federal** regulations, (2) **federal** funding

The **federal** government announced new regulations to protect the environment.

institute *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

spinal *adj.* of or relating to the spine (= the long bone in the body's back)

(1) **spinal** injury, (2) brain and **spinal** cord

The surgeon carefully confirmed how to remove the tumor to avoid damaging the **spinal** nerves.

cord *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

synonym: wire, cable, string

(1) spinal **cord**, (2) electrical **cord**

Your spinal **cord** is located deep within your body.

injury

n. harm done to a person's or an animal's body caused by an accident or an attack

synonym : wound, damage, hurt

(1) without **injury**, (2) a fatal **injury**

My accidental **injury** got better right away.

dramatic

adj. very sudden, very excellent, or full of action and excitement

synonym : striking, theatrical, breathtaking

(1) make **dramatic** changes, (2) a **dramatic** rescue at sea

The statement had a **dramatic** impact on house prices.

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**.

individual

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

synonym : person, being, self

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

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

steel

n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure

synonym : iron

(1) magnetic **steel**, (2) **steel** beam

This bridge is the third largest **steel** bridge in the world.

distress

n. a feeling of great worry, sadness, pain, or discomfort
synonym : discomfort, despair, misery

(1) a signal of **distress**, (2) emotional **distress**

She has been in great **distress** since she was heartbroken.

foundation

n. the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

synonym : base, support, groundwork

(1) **foundation** course, (2) weak **foundation**

The **foundation** of the building was cracked and needed to be repaired.

decisive

adj. making a clear and definite decision or choice; settling an issue

synonym : final, conclusive, unambiguous

(1) a **decisive** ballot, (2) **decisive** action

The **decisive** victory in the war ended years of conflict.

pragmatic

adj. practical rather than idealistic

synonym : practical, realistic, down-to-earth

(1) **pragmatic** approach, (2) **pragmatic** politics

He was a **pragmatic** leader who made decisions based on what was practical rather than ideal.

laboratory

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

synonym : lab, workshop, testing room

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

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

rehabilitate

v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

synonym : reform, restore, renovate

(1) **rehabilitate** prisoners, (2) **rehabilitate** wildlife

The organization works to **rehabilitate** drug addicts and help them rebuild their lives.

struggle

v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

synonym : toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

maintain

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

synonym : preserve, uphold, sustain

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

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

trunk

n. the main stem or body of a tree which its branches grow

synonym : body, chest, torso

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

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

stick

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

synonym : pierce, adhere, stay

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

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

recover

v. to return to a former condition, health, mind, or strength
synonym: come back, convalesce, heal

(1) **recover** a loss, (2) **recover** approval ratings

She is still **recovering** from a shot to her shoulder.

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.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

feat

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

synonym: achievement, accomplishment, exploit

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

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

experimental

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

synonym: empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

hemispatial

n. of or relating to one side of observed space, especially one side of the brain

(1) patients with left-sided **hemispatial** neglect, (2) the effect on **hemispatial** neglect

Patients could get **hemispatial** neglect syndrome after a stroke.

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

interrupt

v. to say or do something that causes someone to stop in their speech or action

synonym: disturb, hinder, break in

(1) **interrupt** a call, (2) abruptly **interrupt**

Her sleep was **interrupted** by recurring pain.

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

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.

paralysis

n. a condition in which you are unable to move or lose control of part or most of the body because of illness or injury

synonym: immobility, stiffness, palsy

(1) moral **paralysis**, (2) **paralysis** in the leg

Massive demonstrations lead to total **paralysis** of transportation.

observe

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

synonym: watch, monitor, scrutinize

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

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

intervene

v. to intentionally get involved in a situation to improve it or prevent it from getting worse

synonym: interfere, mediate, intercede

(1) **intervene** in a dispute, (2) **intervene** between quarreling parties

Following international law, our country does not **intervene** in the internal affairs of our neighbors.

gap

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym: opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap**

Many people are working together to close the gender **gap**.

intact

adj. undamaged and complete

synonym: flawless, unchanged, entire

(1) **intact** brain, (2) **intact** forestland

Despite the scandals, his reputation remained **intact**.

neural

adj. of or relating to a nerve or the nervous system that includes the brain

synonym : sensory, neuronic, nervous

(1) **neural** stem cells, (2) **neural** networks in AI

There was a disturbance of **neural** function.

tissue

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

synonym : structure, texture, anatomy

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

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

consist

v. to be composed or made up of

synonym : lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts

This examination **consists** of five problems to solve.

intervention

n. the action or process of being done to improve or help a circumstance, often they have not been asked to do so

synonym : interference, intercession, treatment

(1) **intervention** by foreign powers, (2) surgical **intervention**

This **intervention** does not require the patient's consent.

promote

v. to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank

synonym : boost, raise, advertise

(1) **promote** a better relationship, (2) **promote** bad behavior

The government should do more to **promote** sustainable agribusiness.

sever

v. to break or separate something by cutting, especially suddenly and forcibly

synonym: cut apart, separate, detach

(1) **sever** a rope, (2) **sever** a positive relationship

He **severed** a branch from a tree quickly.

fiber

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

synonym: yarn, thread, wool

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

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

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym: dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

obvious

adj. easy to see, discover or understand

synonym: apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

physiology

n. the branch of the biological sciences dealing with the functioning of organisms

(1) human **physiology**, (2) **physiology** research

Physiology is the science of how living things work.

sufficient

adj. adequate; enough for a particular purpose or requirement

synonym: acceptable, ample, satisfactory

(1) **sufficient** time, (2) self- **sufficient** economy

That candidate does not have **sufficient** means to win an election with certainty.

coordinate

v. to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree

synonym: organize, harmonize, ordinate

(1) **coordinate** a special project, (2) a **coordinate** clause

We want to **coordinate** a schedule for the investigation.

locomotion

n. the action or ability to move from one place to another

synonym: movement, travel, mobility

(1) **locomotion** system, (2) **locomotion** control

The **locomotion** of the robotic arm was smooth and precise.

functional

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

synonym: applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

dormant

adj. in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances

synonym: inactive, sleeping, quiescent

(1) **dormant** volcano, (2) **dormant** account

The disease can remain **dormant** for years before it presents

any symptoms.

awaken

v. to stop sleeping or to cause someone to stop sleeping
synonym: rouse, arouse, revive

(1) **awaken** at daybreak, (2) **awaken** a child

The friend's death **awakens** them.

doctoral

adj. of or relating to doctorate (= the highest degree from a university) or the achievement of a doctorate

synonym: doctoral

(1) **doctoral** program, (2) **doctoral** research

She is pursuing a **doctoral** degree in psychology to become a licensed therapist.

fellow

adj. someone who has the same job or interests as you, or is in the same class, profession, or situation as you

synonym: buddy, mate, affiliate

(1) junior **fellow**, (2) nice **fellow**

He is the kind of **fellow** who only works for his success.

ph

n. a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity

synonym: acidity, alkalinity, balance

(1) **pH** value of seven, (2) **ph** scale

The **ph** level of this soil is too acidic for these types of plants.

independence

n. freedom from another's or others' control or influence

synonym: freedom, liberty, autonomy

(1) financial **independence**, (2) **independence** ceremony

There is nothing more valuable than **independence** and freedom.

necessarily

adv. in an essential manner; in such a way as could not be otherwise

synonym: inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true
This accident was something that happened **necessarily**.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

courage

n. the ability to face danger, difficulty, uncertainty, or pain without being overcome by fear or despair; the quality of being brave or courageous

synonym: bravery, valor, fearlessness

(1) mental **courage**, (2) inspire **courage**

It takes a lot of **courage** to stand up for what you believe is right.

adviser

n. a person who gives advice about a particular subject

synonym: consultant, guide, expert

(1) a medical **adviser**, (2) chief **adviser**

After retiring, he continued to be an **adviser** to politicians.

grin

v. to smile broadly

synonym: smile, smirk, chuckle

(1) **grin** from ear to ear, (2) **grin** with pleasure

He couldn't help but **grin** as he remembered the good times.

simplistic

adj. oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms

synonym: basic, uncomplicated, elementary

(1) **simplistic** approach, (2) **simplistic** design

The politician's solution to the problem was too **simplistic** to solve the underlying issue.

metaphor

n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym: conceit, analogy, symbol

(1) **metaphor** for death, (2) visual **metaphor**

She expressed her thought in an artful choice of **metaphors**.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

locomote

v. to move or travel from one place to another, especially using wheels or legs

synonym: move, travel, go

(1) **locomote** from one place to another, (2) **locomote** on foot

The only way to **locomote** through the rugged terrain was on foot.

engine

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

synonym: motor, locomotive, driver

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

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

transmission

n. the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television

synonym: transportation, communication, broadcast

(1) **transmission** speed, (2) the **transmission** gears of a car

Education is the **transmission** of civilization.

engage

v. to attract and keep someone's attention and interest; to participate in or obtain services of something

synonym: confront, employ, amuse

(1) **engage** in environmental protection activities,

(2) **engage** a new employee

Many multinational companies are **engaged** in the reconstruction of that country.

fuel

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

synonym: energy, power, gas

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

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

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.

pedal

n. a foot-operated lever or control, especially one used to control a vehicle, machine, or musical instrument

synonym: treadle, accelerator

(1) clutch **pedal**, (2) piano **pedal**

He pressed the **pedal** with all his might, but the car still wouldn't start.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym: guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

pathway

n. a track that constitutes or serves as a path; an approach or a way of doing something

synonym : route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling **pathways**

When the first molecule in the **pathway** receives a signal, it activates other molecules.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone
Eventually, the new design will **replace** all older models.

naturally

adv. as might be expected; by natural manners

synonym : by nature, inherently, intrinsically

(1) **naturally** arising, (2) **naturally** regenerated forest
He was **naturally** gifted.

lever

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym : lifter, crowbar, bar

(1) a gear change **lever**, (2) **lever** for reform

This initiative will be a **lever** for increasing company sales.

pharmacology

n. the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances

synonym : pharmacy, pharmaceuticals

(1) **pharmacology** research, (2) **pharmacology** textbook
Medical professionals must stay up-to-date with the latest developments in **pharmacology** to ensure optimal patient care.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym : nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering
Actuators convert **electrical** pulses into motion.

stimulation

n. the act of arousing interest or activity in something; the action of providing a stimulus

synonym : activation, arousal, excitation

(1) **stimulation** of the economy, (2) **stimulation** of the senses

The **stimulation** of certain chemicals activates the brain's reward system.

electrode

n. either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region

(1) platinum **electrodes**, (2) **electrode** corrosion

It is important to place the **electrodes** in the correct position for accurate electro-cardiogram recording.

implant

v. to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

synonym : insert, fix, place

(1) **implant** genes in the animals, (2) **implant** into the uterus

The doctor will **implant** a pacemaker to regulate his heart rate.

painless

adj. causing little or no physical discomfort; not causing pain or discomfort

synonym : pain-free, effortless, easy

(1) **painless** childbirth, (2) **painless** procedure

Thanks to the new dental anesthesia technique, filling is now **painless**.

eventually

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

synonym : finally, someday, ultimately

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

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

electrochemistry

n. the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

(1) **electrochemistry** device, (2) **electrochemistry** element

Many electric vehicle companies now employ **electrochemistry** capacitors for circuits.

prosthetic

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

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

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

immediately

adv. now or without delay

synonym : directly, instantly, promptly

(1) **immediately** recall a product, (2) write him an answer **immediately**

A suspension order from the court is effective **immediately**.

paralyze

v. to cause a person or part of the body to become unable to move or feel

synonym: immobilize, disable, numb

(1) **paralyze** a city, (2) **paralyze** a person

The venom from the snake bite **paralyzed** his arm.

treadmill

n. a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill

synonym: exercise machine, routine

(1) **treadmill** workout, (2) nonstop **treadmill**

I like to watch TV while running on the **treadmill** to pass the time.

belt

v. to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

synonym: sing, hit hard, (noun) strap

(1) **belt** him in the face, (2) leather **belt**

The band was **belting** out old songs in response to audience requests.

coordinated

adj. effectively arranged or organized so that all the parts work smoothly or systematically together

synonym: collective, unified, cooperative

(1) in a **coordinated** manner, (2) **coordinated** robot system
For greater efficiency, our efforts must be better **coordinated**.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the

process of moving or being moved, physically or figuratively

synonym : motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

cognitive

adj. of or relating to mental processes of understanding

synonym : perceivable, mind, mental

(1) improve **cognitive** function, (2) research on **cognitive** psychology

His **cognitive** faculties were getting worse because of a lack of sleep.

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.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym : choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

sprint

v. to run at full speed over a short distance or period of time

synonym : dash, bolt, race

(1) **sprint** for a bus, (2) **sprint** towards the finish line

Top athletes can **sprint** 100 meters in less than 10 seconds.

instantly

adv. immediately

synonym : immediately, right away, directly

(1) **instantly** cope with, (2) be killed **instantly**

I remembered that person **instantly** and never forgot.

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.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym : captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

frustrate

v. to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

synonym : hinder, thwart, dishearten

(1) **frustrate** the advancement, (2) **frustrate** other team members

The coach explained a strategy to **frustrate** the opponent's schemes to the players.

involuntary

adj. acting or done without or against one's will

synonym : coerced, forced, automatic

(1) **involuntary** manslaughter, (2) **involuntary** muscles

The drug's side effects can include **involuntary** loss of urine.

virtually

adv. almost completely

synonym : almost, basically, nearly

(1) **virtually** all countries, (2) **virtually** identical
Virtually all the parties signed the contract.

paradigm

n. a standard or typical example of something; a pattern or model

synonym: example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**

He postulated a completely different **paradigm** to explain all these phenomena.

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

voluntary

adj. done of one's own free will; without being forced or coerced

synonym: voluntary, self-willed, spontaneous

(1) **voluntary** action, (2) **voluntary** participation

The program is **voluntary**, so participants can choose whether or not to take part.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

attach

v. to fasten, join, or connect one thing to another

synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail
He does not **attach** importance to these rumors.

extremity

n. the farthest or most remote point or the greatest or the highest degree

synonym : end, tip, limit

(1) **extremity** injury, (2) **extremity** amputation

He broke his arm at the **extremity** of the bone.

transparent

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

synonym : translucent, evident, diaphanous

(1) a **transparent** lie, (2) **transparent** crystal

The focus of these initiatives is to make the financial system more **transparent**.

insecure

adj. not firm or firmly fixed; likely to fail or give way, or not assured of safety

synonym : uncertain, unsure, unconfident

(1) an **insecure** future, (2) **insecure** attachment

Children in an unstructured environment often feel **insecure**.

summarize

v. to give a brief statement of the most important facts or ideas about something

synonym : recap, outline, digest

(1) **summarizes** the main ideas, (2) **summarize** text

Each chapter **summarizes** the most critical issues.

lesion

n. a damaged or abnormal area of tissue in the body, usually caused by injury or disease

synonym : injury, wound, damage

(1) muscle **lesion**, (2) brain **lesion**

The doctor examined the **lesion** on the patient's skin to determine if it was cancerous.

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**.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym : endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

motivation

n. the reason or enthusiasm for acting or behaving in a particular way

synonym : inspiration, incentive, reason

(1) understand his **motivation**, (2) **motivation** for a change

A significant amount of **motivation** is required to be a teacher.

disappoint

v. to fail to meet someone or their hopes or expectations; to make someone feel sad

synonym : sadden, dismay, frustrate

(1) **disappoint** the audience, (2) don't **disappoint** me

She worked very hard not to **disappoint** her boss's expectations.

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.

essential

adj. indispensable; fundamental

synonym : critical, crucial, basic

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

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

perseverance

n. steadfastness in doing something despite difficulty or delay in achieving success

synonym : persistence, tenacity, determination

(1) unwavering **perseverance**, (2) dogged **perseverance**

Despite facing numerous setbacks and obstacles, his **perseverance** and determination led him to success.

insist

v. to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say

synonym : demand, assert, claim

(1) **insist** on a clear answer, (2) **insist** over and over

He **insisted** that she pay her debt to the last penny.

refined

adj. made pure by having impurities or unwanted elements removed by processing

synonym : cultured, purified, tasteful

(1) adopt a **refined** attitude, (2) a lot of **refined** sugar

She was highly **refined** in her choice of apparel.

bearing

n. the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another

synonym : demeanor, posture, manner

(1) a thrust **bearing**, (2) a military **bearing**

The pilot had to adjust the plane's **bearing** to stay on course.

reward

n. a thing given in acknowledgment of service, hard work, achievement, etc.

synonym : compensation, gratuity, bonus

(1) the **reward** for good works, (2) shopping **rewards** cards

Night fishing has a lot of **rewards**.

sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym : maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

adjust

v. to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

synonym: adapt, alter, acclimate

(1) **adjust** a schedule, (2) **adjust** the rearview mirror

You have to **adjust** your content to the age of the audience.

resist

v. to refuse to accept something and attempt to prevent it from happening

synonym: fight, defy, revolt

(1) **resist** temptation, (2) **resist** being kissed

I chose to **resist** cancer by trying every possible treatment.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

staircase

n. a set of stairs inside a building, usually with posts and bars that are fixed at the side

synonym: stairway, stairwell

(1) spiral **staircase**, (2) beetle up the **staircase**

She walked urgently down the emergency **staircase**.

emotional

adj. relating to people's feelings

synonym: affecting, impactful, impressive

(1) **emotional** health, (2) **emotional** distress

Human **emotional** responses vary widely depending on the society to which they belong.

unexpected

adj. not anticipated or regarded as likely to happen

synonym : surprising, unanticipated, incredible

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

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

novel

n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

synonym : fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

relay

v. to receive and pass something, such as information or a message, from one person or group to another; to broadcast something on television, radio, etc.

synonym : pass on, transmit, broadcast

(1) **relay** a scene, (2) **relay** a request

Please **relay** the news to the world.

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

cortical

adj. relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain

(1) **cortical** neurons, (2) **cortical** activity

The MRI showed activity in the **cortical** region of the patient's brain.

label

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

synonym : tag, mark, identifier

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

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

constellation

n. a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people

synonym : asterism, array, pattern

(1) the stars of the Scorpion **constellation**, (2) northern **constellation**

Navigators still use the Little Bear **constellation** at sea.

synapse

n. the fact or state of failing to finish an activity and of stopping using, making, or doing it

(1) **synapse** circuit, (2) end at a **synapse**

Animals transmit nerve impulses through **synapses**.

reconnect

v. to connect again after a break or interruption

synonym : reopen, rejoin, link up

(1) **reconnect** a telephone, (2) **reconnect** with family

After a long period of estrangement, they **reconnected** with each other.

remodel

v. to change the structure or form of something

synonym : refurbish, remake, revamp

(1) **remodel** the car, (2) **remodel** portfolio

We are **remodeling** these rooms now.

restricted

adj. limited in extent, number, scope, or action, especially by official rules, laws, etc.

synonym : limited, determinate, fixed

(1) **restricted** area, (2) lactose **restricted** diet

The country has designated our products as **restricted** import goods.

nervous

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

synonym :

neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous**
He suffers from **nervous** breakdowns.

stem

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

synonym: branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick
A rose has thorns on its **stem**.

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

aim

v. to try or plan to get or achieve something

synonym: aspire, direct, target

(1) **aim** at a specific target, (2) **aim** to be a nurse

We **aim** for an overseas expansion.

extensive

adj. covering a large area; having a wide range

synonym: ample, comprehensive, vast

(1) **extensive** experience, (2) have **extensive** vocabulary

The incident attracted **extensive** media coverage throughout the world.

axon

n. a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell

(1) an **axon** of a nerve cell, (2) the **axon** terminals

We are developing a technology to promote the elongation and regeneration of sensory nerve **axons**.

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**.

talented

adj. having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area

synonym: gifted, able, skilled

(1) a very **talented** actor, (2) **talented** athlete

She is a **talented** musician, able to play several instruments.

neurobiology

n. a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion

synonym: brain science, neural science, neurology

(1) **neurobiology** research, (2) cellular **neurobiology**

The professor's research in **neurobiology** has led to groundbreaking discoveries in the field of brain science.

neurosurgeon

n. a medical doctor who specializes in the surgical treatment of conditions affecting the nervous system, including the brain, spinal cord, and peripheral nerves

synonym: brain surgeon, neurologist, surgical specialist

(1) skilled **neurosurgeon**, (2) leading **neurosurgeon**

The hospital recruited experienced **neurosurgeons** worldwide to treat complex neurological disorders comprehensively.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

disciplinary

adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study

synonym: corrective, punitive, instructive

(1) **disciplinary** action, (2) take **disciplinary** measures

The school's **disciplinary** committee met to discuss the student's behavior.

horizontal

adj. parallel to the ground or in a baseline; being at the same level as all members of a group

synonym: even, lying, parallel

(1) **horizontal** lines, (2) **horizontal** stripes

Airplanes need **horizontal** tails to improve stability.

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

translate

v. to convert or change words into another language

synonym: convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

bench

n. a long, flat surface, often elevated and supported by legs, used for sitting, working, or displaying objects;

persons who administer justice

synonym : seat, terrace, judiciary

(1) **bench** conference, (2) **bench board**

I sat on the **bench** in the park and enjoyed the beautiful scenery.

maestro

n. a title used to refer to a master or skilled practitioner of a particular art, often used to describe a distinguished musician or conductor; someone who is highly accomplished in their field

synonym : master, virtuoso, conductor

(1) guitar **maestro**, (2) orchestral **maestro**

Fortunately, The orchestra had a **maestro** conductor leading them through the complex symphony.

orchestrate

v. to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music

synonym : plan, coordinate, arrange

(1) **orchestrate** a takeover, (2) **orchestrate** the political reinstatement

He carefully **orchestrated** the details of his business plan.

symphony

n. a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

synonym : orchestra, harmony, concert

(1) a **symphony** orchestra, (2) a beautiful **symphony**

The frequent performances of the **symphony** prove its popularity.

improve

v. to make or become better

synonym : enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym: endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

pump

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

synonym: drain, inject, send

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

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

cocktail

n. a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal

synonym: appetizer, beverage

(1) a light **cocktail**, (2) **cocktail** of chemicals

We invited some friends for a **cocktail** party.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops

The customer on the Internet has to choose one from a formidable **array** of products.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym: beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

residual

adj. relating to or constituting a remainder or leftover portion; remaining after other elements or factors have been removed or taken into account

synonym: residuary, leftover, remaining

(1) **residual** waste, (2) **residual** income

The scientist found **residual** traces of the chemical in the water sample.

boost

v. to improve, raise, or increase something

synonym: raise, advance, promote

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

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

neurological

adj. of or relating to the science of neurology or the nervous system

synonym: nervous, neural, brain-related

(1) fever with **neurological** signs, (2) **neurological** symptoms

The patient was diagnosed with a **neurological** disorder affecting their motor skills.

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**.

stimming

n. a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation

synonym : self-stimulation, repetitive behaviors

(1) autistic **stimming**, (2) **stimming** therapy

Autistic children may engage in **stimming** behaviors, such as rocking or hand flapping, to self-regulate.

interface

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

synonym : junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**

Detergent weakens the surface tension at the **interface** of two liquids.

peripheral

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

synonym : outer, minor, secondary

(1) **peripheral** vision, (2) **peripheral** devices

The city's **peripheral** areas should be given more attention regarding infrastructure and resources.

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.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

impair

v. to damage something or make it weaker or worse

synonym: degrade, mar, deface

(1) **impair** my health, (2) **impair** insulin sensitivity

The accident made his vision **impaired**.

entice

v. to attract or lure someone with something desirable or tempting

synonym: lure, tempt, attract

(1) **entice** foreign investment, (2) **entice** shoppers

The salesperson tried to **entice** the customer into buying a new car.

imaginary

adj. existing only in someone's mind

synonym: fictional, ideal, fantastical

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

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

revolution

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

synonym: coup, innovation, rebellion

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

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

Session 2: Spelling

1. co_____al neurons *adj.* relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain
2. coo_____te a special project *v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree
3. a thrust be_____g *n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
4. an une_____ed visitor *adj.* not anticipated or regarded as likely to happen
5. tr_____rm heat into power *v.* to change in outward structure or looks;
6. junior fe____w *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
7. a fatal in____y *n.* harm done to a person's or an animal's body caused by an accident or an attack
8. write him an answer imm_____ly *adv.* now or without delay
9. me_____al chemistry *adj.* of or relating to the treatment or cure of disease

ANSWERS: 1. cortical, 2. coordinate, 3. bearing, 4. unexpected, 5. transform, 6. fellow, 7. injury, 8. immediately, 9. medicinal

10. the tr__k of the body *n.* the main stem or body of a tree which its branches grow
11. do____t account *adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances
12. cultural pa____gm *n.* a standard or typical example of something; a pattern or model
13. anthropology lab____ry *n.* a workplace for doing scientific research or teaching science; a lab
14. reh____ate wildlife *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
15. patients with left-sided hem____al neglect *n.* of or relating to one side of observed space, especially one side of the brain
16. distance g_p *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
17. fa____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
18. traditional me____al *adj.* of or relating to the treatment or cure of disease
19. pha____ogy textbook *n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
20. cl____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

ANSWERS: 10. trunk, 11. dormant, 12. paradigm, 13. laboratory, 14. rehabilitate, 15. hemispatial, 16. gap, 17. fascinate, 18. medicinal, 19. pharmacology, 20. clinical

21. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
22. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another
23. magnetic st__l *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
24. 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
25. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
26. fe_____l regulations *adj.* relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level
27. tra_____ion speed *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
28. participate in cl_____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
29. ele_____try element *n.* the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

ANSWERS: 21. maintain, 22. transfer, 23. steel, 24. discovery, 25. eventually, 26. federal, 27. transmission, 28. clinical, 29. electrochemistry

30. laws of ph____s *n.* the science of matter and energy and their interactions
31. a selfish de____on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
32. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
33. co____al activity *adj.* relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain
34. a criminal bac____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
35. a circular mo____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
36. phy____gy research *n.* the branch of the biological sciences dealing with the functioning of organisms
37. neu____ogy research *n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion

ANSWERS: 30. physics, 31. decision, 32. specific, 33. cortical, 34. background, 35. movement, 36. physiology, 37. neurobiology

38. tra_____nt crystal *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
39. im___r insulin sensitivity *v.* to damage something or make it weaker or worse
40. a_m at a specific target *v.* to try or plan to get or achieve something
41. co_____t mainly of cells *v.* to be composed or made up of
42. major pa_____gm shift *n.* a standard or typical example of something; a pattern or model
43. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
44. co_____t car *n.* an idea or principle associated with something abstract
45. re___t being kissed *v.* to refuse to accept something and attempt to prevent it from happening
46. su_____n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
47. su___r bad grades *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
48. surgical int_____ion *n.* the action or process of being done to improve or help a circumstance, often they have not been asked to do so
49. spiral st_____se *n.* a set of stairs inside a building, usually with posts and bars that are fixed at the side

ANSWERS: 38. transparent, 39. impair, 40. aim, 41. consist, 42. paradigm, 43. engine, 44. concept, 45. resist, 46. sustain, 47. suffer, 48. intervention, 49. staircase

50. el_____de corrosion *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
51. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
52. 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
53. inv_____ry manslaughter *adj.* acting or done without or against one's will
54. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
55. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
56. a beautiful sy_____ny *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
57. beginning of the industrial
rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
58. a theoretical concept in
neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system

ANSWERS: 50. electrode, 51. define, 52. discovery, 53. involuntary, 54. pump, 55. observe, 56. symphony, 57. revolution, 58. neuroscience

59. unwavering per_____nce *n.* steadfastness in doing something despite difficulty or delay in achieving success
60. ob_____s reasons *adj.* easy to see, discover or understand
61. int_____ion by foreign powers *n.* the action or process of being done to improve or help a circumstance, often they have not been asked to do so
62. synthetic fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
63. without in___y *n.* harm done to a person's or an animal's body caused by an accident or an attack
64. in_____ne between quarreling parties *v.* to intentionally get involved in a situation to improve it or prevent it from getting worse
65. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
66. visual me_____or *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
67. pa_____ze a person *v.* to cause a person or part of the body to become unable to move or feel
68. im_____t genes in the animals *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
69. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves

ANSWERS: 59. perseverance, 60. obvious, 61. intervention, 62. fiber, 63. injury, 64. intervene, 65. gap, 66. metaphor, 67. paralyze, 68. implant, 69. nervous

70. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
71. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
72. fr_____te the advancement *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
73. en___e foreign investment *v.* to attract or lure someone with something desirable or tempting
74. tr_____te a document into English *v.* to convert or change words into another language
75. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
76. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
77. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
78. reh_____ate prisoners *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

ANSWERS: 70. brain, 71. specific, 72. frustrate, 73. entice, 74. translate, 75. circuit, 76. achieve, 77. amazing, 78. rehabilitate

79. bo__t flexibility *v.* to improve, raise, or increase something
80. la__l a bag with my name *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
81. biomass f__l *n.* a substance that is typically burned to generate heat or energy
82. field of gene th____y *n.* the act of caring for someone through medication, remedial training, etc.
83. clutch pe__l *n.* a foot-operated lever or control, especially one used to control a vehicle, machine, or musical instrument
84. vi____ly identical *adv.* almost completely
85. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
86. 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
87. acc____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
88. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

ANSWERS: 79. boost, 80. label, 81. fuel, 82. therapy, 83. pedal, 84. virtually, 85. decide, 86. patient, 87. accelerate, 88. gravity

89. pa_____ss procedure *adj.* causing little or no physical discomfort; not causing pain or discomfort
90. im_____ry number *adj.* existing only in someone's mind
91. lo_____te from one place to another *v.* to move or travel from one place to another, especially using wheels or legs
92. ph scale *n.* a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity
93. a dr_____ic rescue at sea *adj.* very sudden, very excellent, or full of action and excitement
94. do_____al research *adj.* of or relating to doctorate (= the highest degree from a university) or the achievement of a doctorate
95. le__r for reform *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
96. in_____re attachment *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
97. carbon fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
98. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
99. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

ANSWERS: 89. painless, 90. imaginary, 91. locomote, 92. ph, 93. dramatic, 94. doctoral, 95. lever, 96. insecure, 97. fiber, 98. environment, 99. maintain

100. improve co_____ve function *adj.* of or relating to mental processes of understanding
101. be__h board *n.* a long, flat surface, often elevated and supported by legs, used for sitting, working, or displaying objects; persons who administer justice
102. ind_____nce ceremony *n.* freedom from another's or others' control or influence
103. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
104. st__r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
105. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
106. na_____ly regenerated forest *adv.* as might be expected; by natural manners
107. sp___l injury *adj.* of or relating to the spine (= the long bone in the body's back)
108. in___t brain *adj.* undamaged and complete

ANSWERS: 100. cognitive, 101. bench, 102. independence, 103. function, 104. steer, 105. institute, 106. naturally, 107. spinal, 108. intact

109. 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
110. emotional di_____ss *n.* a feeling of great worry, sadness, pain, or discomfort
111. loc_____on control *n.* the action or ability to move from one place to another
112. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
113. unintended con_____ces *n.* the outcome of a particular action or event, especially relative to an individual
114. im_____e the test score *v.* to make or become better
115. en___e shoppers *v.* to attract or lure someone with something desirable or tempting
116. moral pa_____is *n.* a condition in which you are unable to move or lose control of part or most of the body because of illness or injury
117. res_____ed area *adj.* limited in extent, number, scope, or action, especially by official rules, laws, etc.
118. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
119. ele_____try device *n.* the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

ANSWERS: 109. disorder, 110. distress, 111. locomotion, 112. opposition, 113. consequence, 114. improve, 115. entice, 116. paralysis, 117. restricted, 118. feat, 119. electrochemistry

120. sti_____on of the senses *n.* the act of arousing interest or activity in something; the action of providing a stimulus
121. nec_____ly true *adv.* in an essential manner; in such a way as could not be otherwise
122. the user in_____ce *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
123. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
124. ci_____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
125. pro_____ic limbs *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
126. me_____or for death *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
127. nonstop tr_____ll *n.* a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill

ANSWERS: 120. stimulation, 121. necessarily, 122. interface, 123. achieve, 124. circuit, 125. prosthetic, 126. metaphor, 127. treadmill

128. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
129. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
130. a reckless at____t *n.* an act or effort of trying to do something, especially something difficult
131. en_____ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
132. im_____ry pregnancy *adj.* existing only in someone's mind
133. re_____l the car *v.* to change the structure or form of something
134. the effect on hem_____al neglect *n.* of or relating to one side of observed space, especially one side of the brain
135. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
136. don't dis_____nt me *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
137. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

ANSWERS: 128. array, 129. decide, 130. attempt, 131. encourage, 132. imaginary, 133. remodel, 134. hemispatial, 135. movement, 136. disappoint, 137. experimental

138. immune fu____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
139. nuclear ph____s *n.* the science of matter and energy and their interactions
140. hor_____al lines *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
141. g__n from ear to ear *v.* to smile broadly
142. coo_____ed robot system *adj.* effectively arranged or organized so that all the parts work smoothly or systematically together
143. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
144. historical no__l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
145. st__l beam *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
146. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 138. function, 139. physics, 140. horizontal, 141. grin, 142. coordinated, 143. mimic, 144. novel, 145. steel, 146. pulse

147. have ex_____ve vocabulary *adj.* covering a large area; having a wide range
148. a de_____ve ballot *adj.* making a clear and definite decision or choice; settling an issue
149. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
150. pH value of seven *n.* a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity
151. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
152. ro_____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
153. a light co_____il *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
154. re_____r a loss *v.* to return to a former condition, health, mind, or strength
155. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

ANSWERS: 147. extensive, 148. decisive, 149. neuron, 150. ph, 151. communicate, 152. robotic, 153. cocktail, 154. recover, 155. functional

156. de____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
157. per_____al vision *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
158. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult
159. pha_____ogy research *n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
160. electrical c__d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
161. nice fe___w *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
162. the re___d for good works *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
163. 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

ANSWERS: 156. develop, 157. peripheral, 158. attempt, 159. pharmacology, 160. cord, 161. fellow, 162. reward, 163. patient

164. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
165. the tr__k of the tree *n.* the main stem or body of a tree which its branches grow
166. pr_____e a better relationship *v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
167. adopt a re_____d attitude *adj.* made pure by having impurities or unwanted elements removed by processing
168. co_____il of chemicals *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
169. abruptly in_____pt *v.* to say or do something that causes someone to stop in their speech or action
170. suf_____nt time *adj.* adequate; enough for a particular purpose or requirement
171. lactose res_____ed diet *adj.* limited in extent, number, scope, or action, especially by official rules, laws, etc.
172. in_____pt a call *v.* to say or do something that causes someone to stop in their speech or action

ANSWERS: 164. experimental, 165. trunk, 166. promote, 167. refined, 168. cocktail, 169. interrupt, 170. sufficient, 171. restricted, 172. interrupt

173. pa_____ze a city *v.* to cause a person or part of the body to become unable to move or feel
174. lo_____te on foot *v.* to move or travel from one place to another, especially using wheels or legs
175. pa_____ss childbirth *adj.* causing little or no physical discomfort; not causing pain or discomfort
176. bo__t the economy *v.* to improve, raise, or increase something
177. take dis_____ary measures *adj.* of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study
178. ne___l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
179. higher pixel de_____y *n.* the quality of compactness of a substance
180. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
181. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
182. an a__n of a nerve cell *n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
183. piano pe__l *n.* a foot-operated lever or control, especially one used to control a vehicle, machine, or musical instrument

ANSWERS: 173. paralyze, 174. locomote, 175. painless, 176. boost, 177. disciplinary, 178. neural, 179. density, 180. pump, 181. complicated, 182. axon, 183. pedal

184. su___r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
185. research on co_____ve psychology *adj.* of or relating to mental processes of understanding
186. s__m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
187. se__r a positive relationship *v.* to break or separate something by cutting, especially suddenly and forcibly
188. shopping re___ds cards *n.* a thing given in acknowledgment of service, hard work, achievement, etc.
189. understand his mot_____on *n.* the reason or enthusiasm for acting or behaving in a particular way
190. es_____al commodities of life *adj.* indispensable; fundamental
191. dis_____nt the audience *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
192. em_____al health *adj.* relating to people's feelings
193. the attraction of gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
194. re_____l portfolio *v.* to change the structure or form of something
195. orc_____te the political reinstatement *v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music

ANSWERS: 184. suffer, 185. cognitive, 186. stem, 187. sever, 188. reward, 189. motivation, 190. essential, 191. disappoint, 192. emotional, 193. gravity, 194. remodel, 195. orchestrate

196. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
197. a signal of di_____ss *n.* a feeling of great worry, sadness, pain, or discomfort
198. loc_____on system *n.* the action or ability to move from one place to another
199. st_____le to get the job *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
200. b__t him in the face *v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
201. do_____al program *adj.* of or relating to doctorate (= the highest degree from a university) or the achievement of a doctorate
202. in a coo_____ed manner *adj.* effectively arranged or organized so that all the parts work smoothly or systematically together
203. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
204. en___e a new employee *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
205. a_m to be a nurse *v.* to try or plan to get or achieve something

ANSWERS: 196. tissue, 197. distress, 198. locomotion, 199. struggle, 200. belt, 201. doctoral, 202. coordinated, 203. tissue, 204. engage, 205. aim

206. literature of pe_____nt value *adj.* lasting for a long time without essential change
207. do_____t volcano *adj.* in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances
208. st_____le against discrimination *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
209. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
210. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
211. spinal c__d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
212. a sy_____ny orchestra *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
213. re_____ct a telephone *v.* to connect again after a break or interruption
214. hor_____al stripes *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
215. weak fou_____on *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

ANSWERS: 206. permanent, 207. dormant, 208. struggle, 209. brain, 210. fascinate, 211. cord, 212. symphony, 213. reconnect, 214. horizontal, 215. foundation

216. tr_____rm an education system *v.* to change in outward structure or looks;
217. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
218. learn new co_____ts *n.* an idea or principle associated with something abstract
219. an air-cooled en____e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
220. guitar ma_____o *n.* a title used to refer to a master or skilled practitioner of a particular art, often used to describe a distinguished musician or conductor; someone who is highly accomplished in their field
221. tr_____ll workout *n.* a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill
222. dogged per_____nce *n.* steadfastness in doing something despite difficulty or delay in achieving success
223. the tra_____ion gears of a car *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
224. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

ANSWERS: 216. transform, 217. opposition, 218. concept, 219. engine, 220. maestro, 221. treadmill, 222. perseverance, 223. transmission, 224. steer

225. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
226. sim_____ic approach *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
227. a tra_____nt lie *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
228. mot_____on for a change *n.* the reason or enthusiasm for acting or behaving in a particular way
229. en___e in environmental protection activities *v.* to attract and keep someone's attention and interest; to participate in or obtain services of something
230. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
231. chief ad_____r *n.* a person who gives advice about a particular subject
232. th_____y for a patient *n.* the act of caring for someone through medication, remedial training, etc.
233. self-suf_____nt economy *adj.* adequate; enough for a particular purpose or requirement
234. skilled neu_____eon *n.* a medical doctor who specializes in the surgical treatment of conditions affecting the nervous system, including the brain, spinal cord, and peripheral nerves

ANSWERS: 225. prosthetic, 226. simplistic, 227. transparent, 228. motivation, 229. engage, 230. neuroscience, 231. adviser, 232. therapy, 233. sufficient, 234. neurosurgeon

235. end at a sy____e *n.* the fact or state of failing to finish an activity and of stopping using, making, or doing it
236. an in____re future *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
237. not nec____ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
238. make dr____ic changes *adj.* very sudden, very excellent, or full of action and excitement
239. 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
240. northern con____ion *n.* a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
241. acc____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
242. re____ct with family *v.* to connect again after a break or interruption
243. im____t into the uterus *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

ANSWERS: 235. synapse, 236. insecure, 237. necessarily, 238. dramatic, 239. process, 240. constellation, 241. accelerate, 242. reconnect, 243. implant

244. pa_____is in the leg *n.* a condition in which you are unable to move or lose control of part or most of the body because of illness or injury
245. ind_____al freedom *n.* a single person or thing, as distinct from a group
246. sim_____ic design *adj.* oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms
247. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
248. 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
249. im_____e a process *v.* to make or become better
250. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
251. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
252. re_____e a phone *v.* to take the place of something
253. es_____al amino acid *adj.* indispensable; fundamental

ANSWERS: 244. paralysis, 245. individual, 246. simplistic, 247. revolution, 248. process, 249. improve, 250. functional, 251. transfer, 252. replace, 253. essential

254. in___t on a clear answer *v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say
255. fou_____on course *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
256. vo_____ry action *adj.* done of one's own free will; without being forced or coerced
257. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
258. leading neu_____eon *n.* a medical doctor who specializes in the surgical treatment of conditions affecting the nervous system, including the brain, spinal cord, and peripheral nerves
259. tr_____te the emotion to a movement *v.* to convert or change words into another language
260. imm_____ly recall a product *adv.* now or without delay
261. sp___t for a bus *v.* to run at full speed over a short distance or period of time
262. get ne_____s *adj.* worried and anxious about something; relating to the nerves
263. brain le___n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease

ANSWERS: 254. insist, 255. foundation, 256. voluntary, 257. neural, 258. neurosurgeon, 259. translate, 260. immediately, 261. sprint, 262. nervous, 263. lesion

264. a mailing la__l *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
265. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
266. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
267. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
268. a lot of re_____d sugar *adj.* made pure by having impurities or unwanted elements removed by processing
269. orc_____te a takeover *v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
270. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
271. sy_____e circuit *n.* the fact or state of failing to finish an activity and of stopping using, making, or doing it
272. ex_____ty injury *n.* the farthest or most remote point or the greatest or the highest degree

ANSWERS: 264. label, 265. communicate, 266. stick, 267. fuel, 268. refined, 269. orchestrate, 270. extraordinary, 271. synapse, 272. extremity

273. be killed in_____ly *adv.* immediately
274. fe_____l funding *adj.* relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level
275. in____t over and over *v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say
276. aw____n at daybreak *v.* to stop sleeping or to cause someone to stop sleeping
277. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
278. cellular neu_____ogy *n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion
279. ad____t the rearview mirror *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
280. re____t temptation *v.* to refuse to accept something and attempt to prevent it from happening

ANSWERS: 273. instantly, 274. federal, 275. insist, 276. awaken, 277. extraordinary, 278. neurobiology, 279. adjust, 280. resist

281. g__n with pleasure	<i>v.</i> to smile broadly
282. an ele_____al storm	<i>adj.</i> relating to electricity
283. re_____al waste	<i>adj.</i> relating to or constituting a remainder or leftover portion; remaining after other elements or factors have been removed or taken into account
284. re_____e one word with another	<i>v.</i> to take the place of something
285. a two-dimensional ar__y	<i>n.</i> a large group or collection of things or people, especially one that is impressive or attractive
286. some une_____ed events	<i>adj.</i> not anticipated or regarded as likely to happen
287. de_____ve action	<i>adj.</i> making a clear and definite decision or choice; settling an issue
288. a military be_____g	<i>n.</i> the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
289. em_____al distress	<i>adj.</i> relating to people's feelings
290. a medical ad_____r	<i>n.</i> a person who gives advice about a particular subject
291. vo_____ry participation	<i>adj.</i> done of one's own free will; without being forced or coerced
292. vi_____ly all countries	<i>adv.</i> almost completely
293. brain and sp___l cord	<i>adj.</i> of or relating to the spine (= the long bone in the body's back)

ANSWERS: 281. grin, 282. electrical, 283. residual, 284. replace, 285. array, 286. unexpected, 287. decisive, 288. bearing, 289. emotional, 290. adviser, 291. voluntary, 292. virtually, 293. spinal

294. de_____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
295. in_____ly cope with *adv.* immediately
296. ex_____ve experience *adj.* covering a large area; having a wide range
297. no__l effect *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
298. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
299. his conclusion was ob_____s *adj.* easy to see, discover or understand
300. per_____al devices *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
301. re__y a request *v.* to receive and pass something, such as information or a message, from one person or group to another; to broadcast something on television, radio, etc.
302. 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

ANSWERS: 294. decision, 295. instantly, 296. extensive, 297. novel, 298. robotic, 299. obvious, 300. peripheral, 301. relay, 302. develop

303. platinum el_____des *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
304. pe_____nt life insurance *adj.* lasting for a long time without essential change
305. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
306. inv_____ry muscles *adj.* acting or done without or against one's will
307. dis_____ary action *adj.* of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study
308. inspire co_____e *n.* the ability to face danger, difficulty, uncertainty, or pain without being overcome by fear or despair; the quality of being brave or courageous
309. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
310. a very ta_____ed actor *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
311. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 303. electrode, 304. permanent, 305. background, 306. involuntary, 307. disciplinary, 308. courage, 309. lab, 310. talented, 311. pulse

312. the stars of the Scorpion
con_____ion *n.* a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
313. the con_____ce of an argument *n.* the outcome of a particular action or event, especially relative to an individual
314. degree in ele_____al engineering *adj.* relating to electricity
315. aw___n a child *v.* to stop sleeping or to cause someone to stop sleeping
316. autistic st_____ng *n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
317. leather b___t *v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
318. in___t forestland *adj.* undamaged and complete
319. the a___n terminals *n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
320. st_____ng therapy *n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation

ANSWERS: 312. constellation, 313. consequence, 314. electrical, 315. awaken, 316. stimulating, 317. belt, 318. intact, 319. axon, 320. stimulating

321. research in_____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
322. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
323. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
324. be__h conference *n.* a long, flat surface, often elevated and supported by legs, used for sitting, working, or displaying objects; persons who administer justice
325. re_____r approval ratings *v.* to return to a former condition, health, mind, or strength
326. pr_____e bad behavior *v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
327. pr_____ic politics *adj.* practical rather than idealistic
328. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
329. beetle up the st_____se *n.* a set of stairs inside a building, usually with posts and bars that are fixed at the side
330. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 321. institute, 322. feat, 323. eventually, 324. bench, 325. recover, 326. promote, 327. pragmatic, 328. laboratory, 329. staircase, 330. engineer

331. orchestral ma____o *n.* a title used to refer to a master or skilled practitioner of a particular art, often used to describe a distinguished musician or conductor; someone who is highly accomplished in their field
332. ta____ed athlete *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
333. financial ind____nce *n.* freedom from another's or others' control or influence
334. env____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
335. na____ly arising *adv.* as might be expected; by natural manners
336. im____r my health *v.* to damage something or make it weaker or worse
337. a gear change le__r *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
338. at____h firmly *v.* to fasten, join, or connect one thing to another
339. population de____y *n.* the quality of compactness of a substance
340. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
341. pa____y to understanding *n.* a track that constitutes or serves as a path; an approach or a way of doing something

ANSWERS: 331. maestro, 332. talented, 333. independence, 334. environment, 335. naturally, 336. impair, 337. lever, 338. attach, 339. density, 340. lab, 341. pathway

342. co_____t only in knowing facts *v.* to be composed or made up of
343. pr_____ic approach *adj.* practical rather than idealistic
344. neu_____cal symptoms *adj.* of or relating to the science of neurology or the nervous system
345. muscle le____n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
346. en_____ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
347. cellular signaling pa_____ys *n.* a track that constitutes or serves as a path; an approach or a way of doing something
348. re_____al income *adj.* relating to or constituting a remainder or leftover portion; remaining after other elements or factors have been removed or taken into account
349. se__r a rope *v.* to break or separate something by cutting, especially suddenly and forcibly
350. the s__m of a matchstick *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
351. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

ANSWERS: 342. consist, 343. pragmatic, 344. neurological, 345. lesion, 346. encourage, 347. pathway, 348. residual, 349. sever, 350. stem, 351. interface

352. su_____ze text *v.* to give a brief statement of the most important facts or ideas about something
353. excite the ne____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
354. de____e my position *v.* to state or explain precisely the nature, scope, or meaning of something
355. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
356. re__y a scene *v.* to receive and pass something, such as information or a message, from one person or group to another; to broadcast something on television, radio, etc.
357. 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
358. fr_____te other team members *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
359. a private ind_____al *n.* a single person or thing, as distinct from a group
360. sp____t towards the finish line *v.* to run at full speed over a short distance or period of time

ANSWERS: 352. summarize, 353. neuron, 354. define, 355. amazing, 356. relay, 357. disorder, 358. frustrate, 359. individual, 360. sprint

361. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
362. human phy_____gy *n.* the branch of the biological sciences dealing with the functioning of organisms
363. su_____zes the main ideas *v.* to give a brief statement of the most important facts or ideas about something
364. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
365. ad___t a schedule *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
366. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
367. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
368. fever with neu_____cal signs *adj.* of or relating to the science of neurology or the nervous system
369. su_____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
370. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 361. mimic, 362. physiology, 363. summarize, 364. attach, 365. adjust, 366. engineer, 367. observe, 368. neurological, 369. sustain, 370. complicated

371. ex_____ty amputation *n.* the farthest or most remote point or the greatest or the highest degree
372. in_____ne in a dispute *v.* to intentionally get involved in a situation to improve it or prevent it from getting worse
373. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
374. mental co_____e *n.* the ability to face danger, difficulty, uncertainty, or pain without being overcome by fear or despair; the quality of being brave or courageous
375. sti_____on of the economy *n.* the act of arousing interest or activity in something; the action of providing a stimulus
376. a coo_____te clause *v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree

ANSWERS: 371. extremity, 372. intervene, 373. stick, 374. courage, 375. stimulation, 376. coordinate

Session 3: Fill in the Blanks

1. He _____ that she pay her debt to the last penny.
 - v. to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say

2. The politician's solution to the problem was too _____ to solve the underlying issue.
 - adj. oversimplified or lacking in complexity or depth; characterized by an attempt to explain something complex or multifaceted with overly vague or simple terms

3. The new service helped _____ net income by 10%.
 - v. to improve, raise, or increase something

4. Despite facing numerous setbacks and obstacles, his _____ and determination led him to success.
 - n. steadfastness in doing something despite difficulty or delay in achieving success

5. I will work hard to _____ my goals and realize my dreams.
 - v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

6. Animals transmit nerve impulses through _____.
 - n. the fact or state of failing to finish an activity and of stopping using, making, or doing it

7. It takes a lot of _____ to stand up for what you believe is right.
 - n. the ability to face danger, difficulty, uncertainty, or pain without being overcome by fear or despair; the quality of being brave or courageous

ANSWERS: 1. insisted, 2. simplistic, 3. boost, 4. perseverance, 5. achieve, 6. synapses, 7. courage

8. Night fishing has a lot of _____.
- n.* a thing given in acknowledgment of service, hard work, achievement, etc.
9. Massive demonstrations lead to total _____ of transportation.
- n.* a condition in which you are unable to move or lose control of part or most of the body because of illness or injury
10. She is still _____ from a shot to her shoulder.
- v.* to return to a former condition, health, mind, or strength
11. 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
12. X-rays revealed a small tumor in his _____.
- n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
13. Detergent weakens the surface tension at the _____ of two liquids.
- n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
14. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
15. She has been in great _____ since she was heartbroken.
- n.* a feeling of great worry, sadness, pain, or discomfort

ANSWERS: 8. rewards, 9. paralysis, 10. recovering, 11. disorder, 12. brain, 13. interface, 14. engineer, 15. distress

16. He broke his arm at the _____ of the bone.
n. the farthest or most remote point or the greatest or the highest degree
17. He narrated the _____ story of his adventure.
adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual
18. She _____ the money from her savings account to her checking account.
v. to move, pass, or change from one person, place, or situation to another
19. I chose to _____ cancer by trying every possible treatment.
v. to refuse to accept something and attempt to prevent it from happening
20. We are _____ these rooms now.
v. to change the structure or form of something
21. We _____ for an overseas expansion.
v. to try or plan to get or achieve something
22. This initiative will be a _____ for increasing company sales.
n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
23. The company's hiring criteria emphasize personality, not a person's _____.
n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
24. 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

ANSWERS: 16. extremity, 17. extraordinary, 18. transferred, 19. resist, 20. remodeling, 21. aim, 22. lever, 23. background, 24. patient's

25. Human _____ responses vary widely depending on the society to which they belong.
adj. relating to people's feelings
26. Thanks to the new dental anesthesia technique, filling is now _____.
adj. causing little or no physical discomfort; not causing pain or discomfort
27. The magic tricks _____ the children.
v. to attract and hold the attention of someone deeply and irresistibly
28. There is nothing more valuable than _____ and freedom.
n. freedom from another's or others' control or influence
29. 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
30. The government tried to _____ the commercialization of this development.
v. to make something faster or earlier; to cause to develop or progress more quickly
31. Fortunately, The orchestra had a _____ conductor leading them through the complex symphony.
n. a title used to refer to a master or skilled practitioner of a particular art, often used to describe a distinguished musician or conductor; someone who is highly accomplished in their field
32. The _____ of the robotic arm was smooth and precise.
n. the action or ability to move from one place to another

ANSWERS: 25. emotional, 26. painless, 27. fascinated, 28. independence, 29. develop, 30. accelerate, 31. maestro, 32. locomotion

33. The focus of these initiatives is to make the financial system more _____.

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

34. She is searching for a _____ residence.

adj. lasting for a long time without essential change

35. He is the kind of _____ who only works for his success.

adj. someone who has the same job or interests as you, or is in the same class, profession, or situation as you

36. Dolphins use sound to _____ with each other.

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

37. The surgeon removed the tumor using _____ video assistance.

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

38. She struggled to _____ the children's reading habits.

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

39. There are _____ differences between the two wine-producing regions.

adj. easy to see, discover or understand

40. This _____ does not require the patient's consent.

n. the action or process of being done to improve or help a circumstance, often they have not been asked to do so

ANSWERS: 33. transparent, 34. permanent, 35. fellow, 36. communicate, 37. robotic, 38. sustain, 39. obvious, 40. intervention

41. She is pursuing a _____ degree in psychology to become a licensed therapist.

adj. of or relating to doctorate (= the highest degree from a university) or the achievement of a doctorate

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

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

43. I underwent aversion _____ for my addiction to alcohol.

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

44. The _____ victory in the war ended years of conflict.

adj. making a clear and definite decision or choice; settling an issue

45. Your spinal _____ is located deep within your body.

n. a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

46. 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

47. He suffers from _____ breakdowns.

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

48. Do you know the _____ of the population in Hong Kong?

n. the quality of compactness of a substance

ANSWERS: 41. doctoral, 42. individual, 43. therapy, 44. decisive, 45. cord, 46. environment, 47. nervous, 48. density

49. The older man _____ from arthritis and finds it difficult to move around.
- v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
50. He could not _____ against temptation.
- v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
51. She worked very hard not to _____ her boss's expectations.
- v. to fail to meet someone or their hopes or expectations; to make someone feel sad
52. The city's _____ areas should be given more attention regarding infrastructure and resources.
- adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential
53. The _____ by the citizen resulted in a redistribution of wealth.
- n. a large-scale attempt to overthrow the government of a country, often using violence or war;
54. Trial and error is an _____ part of education.
- adj. indispensable; fundamental
55. The country has designated our products as _____ import goods.
- adj. limited in extent, number, scope, or action, especially by official rules, laws, etc.
56. Many electric vehicle companies now employ _____ capacitors for circuits.
- n. the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

ANSWERS: 49. suffers, 50. struggle, 51. disappoint, 52. peripheral, 53. revolution, 54. essential, 55. restricted, 56. electrochemistry

57. The _____ properties of this herb have been known to help with various ailments.

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

58. We want to _____ a schedule for the investigation.

v. to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree

59. The scientist found _____ traces of the chemical in the water sample.

adj. relating to or constituting a remainder or leftover portion; remaining after other elements or factors have been removed or taken into account

60. The program is _____ so participants can choose whether or not to take part.

adj. done of one's own free will; without being forced or coerced

61. Our university is famous for its professors, who are well-versed in behavioral _____.

n. the scientific study of the function, structure, and disorder of the brain and the nervous system

62. My father's death _____ my life completely.

v. to change in outward structure or looks;

63. The ____ scarcity most severely impacted the manufacturing sector

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

64. Autistic children may engage in _____ behaviors, such as rocking or hand flapping, to self-regulate.

n. a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation

ANSWERS: 57. medicinal, 58. coordinate, 59. residual, 60. voluntary, 61. neuroscience, 62. transformed, 63. fuel, 64. stimming

65. The pilot had to adjust the plane's _____ to stay on course.
- n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
66. The hospital recruited experienced _____ worldwide to treat complex neurological disorders comprehensively.
- n.* a medical doctor who specializes in the surgical treatment of conditions affecting the nervous system, including the brain, spinal cord, and peripheral nerves
67. A suspension order from the court is effective _____.
- adv.* now or without delay
68. Eventually, the new design will _____ all older models.
- v.* to take the place of something
69. We invited some friends for a _____ party.
- n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
70. After a long period of estrangement, they _____ with each other.
- v.* to connect again after a break or interruption
71. The _____ party strongly disagreed with the government's proposed legislation.
- n.* the act of disagreeing or resisting; the state of strong disagreement
72. He postulated a completely different _____ to explain all these phenomena.
- n.* a standard or typical example of something; a pattern or model

ANSWERS: 65. bearing, 66. neurosurgeons, 67. immediately, 68. replace, 69. cocktail, 70. reconnected, 71. opposition, 72. paradigm

73. He pressed the _____ with all his might, but the car still wouldn't start.

n. a foot-operated lever or control, especially one used to control a vehicle, machine, or musical instrument

74. New _____ joints are less prone to metal poisoning.

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

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

adj. not anticipated or regarded as likely to happen

76. The incident attracted _____ media coverage throughout the world.

adj. covering a large area; having a wide range

77. Each chapter _____ the most critical issues.

v. to give a brief statement of the most important facts or ideas about something

78. The corporation _____ dominated the entire tobacco business.

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

79. This accident was something that happened _____.

adv. in an essential manner; in such a way as could not be otherwise

80. I remembered that person _____ and never forgot.

adv. immediately

81. A significant amount of _____ is required to be a teacher.

n. the reason or enthusiasm for acting or behaving in a particular way

ANSWERS: 73. pedal, 74. prosthetic, 75. unexpected, 76. extensive, 77. summarizes, 78. eventually, 79. necessarily, 80. instantly, 81. motivation

82. The professor's research in _____ has led to groundbreaking discoveries in the field of brain science.
- n.* a field of biology that studies the structure, function, and development of the nervous system, including the brain, spinal cord, and peripheral nerves encompassing a wide range of research topics, including the molecular and cellular processes involved in neural signaling, the organization of neural circuits, and the neural basis of behavior, cognition, and emotion
83. Airplanes need _____ tails to improve stability.
- adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
84. The _____ of certain chemicals activates the brain's reward system.
- n.* the act of arousing interest or activity in something; the action of providing a stimulus
85. The product is still in the _____ stage.
- adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
86. 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
87. That candidate does not have _____ means to win an election with certainty.
- adj.* adequate; enough for a particular purpose or requirement

ANSWERS: 82. neurobiology, 83. horizontal, 84. stimulation, 85. experimental, 86. process, 87. sufficient

88. The government should do more to _____ sustainable agribusiness.
- v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
89. She couldn't _____ whether to order the pizza or the pasta for dinner.
- v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
90. He did _____ pen-and-ink drawings in just a few days.
- adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
91. 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
92. This bridge is the third largest _____ bridge in the world.
- n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
93. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
94. The astronaut felt weightless in space due to the absence of _____.
- n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
95. She was highly _____ in her choice of apparel.
- adj.* made pure by having impurities or unwanted elements removed by processing

ANSWERS: 88. promote, 89. decide, 90. complicated, 91. discovery, 92. steel, 93. stick, 94. gravity, 95. refined

96. This region has many _____ offering higher education.
- n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
97. Animal protection groups call for an end to animal testing in a _____.
- n.* a workplace for doing scientific research or teaching science; a lab
98. My accidental _____ got better right away.
- n.* harm done to a person's or an animal's body caused by an accident or an attack
99. I need to _____ my car regularly to prevent any major mechanical issues.
- v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
100. When the first molecule in the _____ receives a signal, it activates other molecules.
- n.* a track that constitutes or serves as a path; an approach or a way of doing something
101. He couldn't help but _____ as he remembered the good times.
- v.* to smile broadly
102. The _____ level of this soil is too acidic for these types of plants.
- n.* a measure of the acidity or alkalinity of a substance, on a scale of 0 to 14, with seven being neutral, lower values indicating greater acidity, and higher values indicating greater alkalinity
103. He was a _____ leader who made decisions based on what was practical rather than ideal.
- adj.* practical rather than idealistic

ANSWERS: 96. institutes, 97. laboratory, 98. injury, 99. maintain, 100. pathway, 101. grin, 102. ph, 103. pragmatic

104. The _____ of the building was cracked and needed to be repaired.
- n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
105. This examination _____ of five problems to solve.
- v.* to be composed or made up of
106. He does not _____ importance to these rumors.
- v.* to fasten, join, or connect one thing to another
107. The accident made his vision _____.
- v.* to damage something or make it weaker or worse
108. They _____ customers with a premium for loyal patronage.
- v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
109. Destructive fungi thrive in moist environments, such as those seen in wounds on the _____.
- n.* the main stem or body of a tree which its branches grow
110. The researcher separated the nervous _____ for microscopic examinations.
- n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
111. Many multinational companies are _____ in the reconstruction of that country.
- v.* to attract and keep someone's attention and interest; to participate in or obtain services of something

ANSWERS: 104. foundation, 105. consists, 106. attach, 107. impaired, 108. encouraged, 109. trunk, 110. tissue, 111. engaged

112. The only way to _____ through the rugged terrain was on foot.
v. to move or travel from one place to another, especially using wheels or legs
113. The captain told him to _____ the ship north.
v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
114. _____ is the science of how living things work.
n. the branch of the biological sciences dealing with the functioning of organisms
115. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
116. The policies he announces can be the _____ of economic growth in the country.
n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
117. Actuators convert _____ pulses into motion.
adj. relating to electricity
118. The cardiac monitor displays the intensity of your _____.
n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
119. She expressed her thought in an artful choice of _____.
n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

ANSWERS: 112. locomote, 113. steer, 114. Physiology, 115. lab, 116. engine, 117. electrical, 118. pulse, 119. metaphors

120. The school's _____ committee met to discuss the student's behavior.
adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study
121. The scientist conducted a study that provided _____ details about the species' behavior.
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
122. Navigators still use the Little Bear _____ at sea.
n. a group of stars that form a recognizable pattern and have a name; a group of related or similar ideas, things, or people
123. The frequent performances of the _____ prove its popularity.
n. a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
124. He _____ a branch from a tree quickly.
v. to break or separate something by cutting, especially suddenly and forcibly
125. He was _____ gifted.
adv. as might be expected; by natural manners
126. He was alert and could not _____ any critical information out of him.
v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
127. An intelligent battery has a voltage monitoring _____.
n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

ANSWERS: 120. disciplinary, 121. specific, 122. constellation, 123. symphony, 124. severed, 125. naturally, 126. pump, 127. circuit

128. It is important to place the _____ in the correct position for accurate electro-cardiogram recording.
- n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
129. To advance this discussion, we must _____ "success" rigorously.
- v.* to state or explain precisely the nature, scope, or meaning of something
130. The coach explained a strategy to _____ the opponent's schemes to the players.
- v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
131. The _____ government announced new regulations to protect the environment.
- adj.* relating to a central government or national authority; refers to government policies, laws, or programs that are implemented at a national level rather than a state or local level
132. For greater efficiency, our efforts must be better _____.
- adj.* effectively arranged or organized so that all the parts work smoothly or systematically together
133. He carefully _____ the details of his business plan.
- v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
134. The doctor examined the _____ on the patient's skin to determine if it was cancerous.
- n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease

ANSWERS: 128. electrodes, 129. define, 130. frustrate, 131. federal, 132. coordinated, 133. orchestrated, 134. lesion

135. She is a _____ musician, able to play several instruments.

adj. having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area

136. The MRI showed activity in the _____ region of the patient's brain.

adj. relating to or located in the outer layer of an organ or body structure, particularly the cortex of the brain

137. The customer on the Internet has to choose one from a formidable _____ of products.

n. a large group or collection of things or people, especially one that is impressive or attractive

138. After retiring, he continued to be an _____ to politicians.

n. a person who gives advice about a particular subject

139. The drug's side effects can include _____ loss of urine.

adj. acting or done without or against one's will

140. The surgeon carefully confirmed how to remove the tumor to avoid damaging the _____ nerves.

adj. of or relating to the spine (= the long bone in the body's back)

141. The disease can remain _____ for years before it presents any symptoms.

adj. in a state of temporary inactivity, rest, or sleep; not growing or progressing but capable of doing so under the right circumstances

142. _____ all the parties signed the contract.

adv. almost completely

ANSWERS: 135. talented, 136. cortical, 137. array, 138. adviser, 139. involuntary, 140. spinal, 141. dormant, 142. Virtually

143. Please _____ the news to the world.

- v.* to receive and pass something, such as information or a message, from one person or group to another; to broadcast something on television, radio, etc.

144. Little children tend to have _____ friends.

- adj.* existing only in someone's mind

145. The _____ of the dancers on stage was graceful and elegant.

- n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

146. A rose has thorns on its _____.

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

147. These economic activities had disastrous environmental _____.

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

148. We want to _____ ties between our two countries.

- v.* to make or become better

149. She walked urgently down the emergency _____.

- n.* a set of stairs inside a building, usually with posts and bars that are fixed at the side

150. I like to watch TV while running on the _____ to pass the time.

- n.* a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill

ANSWERS: 143. relay, 144. imaginary, 145. movement, 146. stem, 147. consequences, 148. improve, 149. staircase, 150. treadmill

151. The golfer recorded an _____ distance.

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

152. Many people are working together to close the gender _____.

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

153. We are developing a technology to promote the elongation and regeneration of sensory nerve _____.

n. a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell

154. The salesperson tried to _____ the customer into buying a new car.

v. to attract or lure someone with something desirable or tempting

155. It is important to _____ safety procedures in the workplace to prevent accidents.

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

156. Our body transfers information along each _____ using an electrical impulse.

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

157. There was a disturbance of _____ function.

adj. of or relating to a nerve or the nervous system that includes the brain

158. The mobile phone was still _____ even after being dropped.

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

ANSWERS: 151. amazing, 152. gap, 153. axons, 154. entice, 155. observe, 156. neuron, 157. neural, 158. functional

159. The friend's death _____ them.

v. to stop sleeping or to cause someone to stop sleeping

160. Her sleep was _____ by recurring pain.

v. to say or do something that causes someone to stop in their speech or action

161. His _____ faculties were getting worse because of a lack of sleep.

adj. of or relating to mental processes of understanding

162. The brain is an incredibly complex organ that controls the body's _____.

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

163. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

164. Patients could get _____ neglect syndrome after a stroke.

n. of or relating to one side of observed space, especially one side of the brain

165. The statement had a _____ impact on house prices.

adj. very sudden, very excellent, or full of action and excitement

166. Despite the scandals, his reputation remained _____.

adj. undamaged and complete

167. The doctor will _____ a pacemaker to regulate his heart rate.

v. to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

ANSWERS: 159. awakens, 160. interrupted, 161. cognitive, 162. function, 163. concept, 164. hemispatial, 165. dramatic, 166. intact, 167. implant

168. The third _____ was far more successful.

n. an act or effort of trying to do something, especially something difficult

169. _____ the text from Italian into English.

v. to convert or change words into another language

170. She received special _____ training at the hospital.

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

171. The patient was diagnosed with a _____ disorder affecting their motor skills.

adj. of or relating to the science of neurology or the nervous system

172. Top athletes can _____ 100 meters in less than 10 seconds.

v. to run at full speed over a short distance or period of time

173. He is very popular at school because he can _____ all the teachers' accents.

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

174. We must consume dietary _____ to maintain good health.

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

175. She was struggling to make a _____ between two job offers.

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

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

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

ANSWERS: 168. attempt, 169. Translate, 170. clinical, 171. neurological, 172. sprint, 173. mimic, 174. fiber, 175. decision, 176. feat

177. The _____ on the food package lists the ingredients and nutritional information.
- n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
178. The band was _____ out old songs in response to audience requests.
- v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
179. Education is the _____ of civilization.
- n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
180. You have to _____ your content to the age of the audience.
- v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
181. The venom from the snake bite _____ his arm.
- v.* to cause a person or part of the body to become unable to move or feel
182. The _____ has largely gotten positive feedback.
- n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
183. Medical professionals must stay up-to-date with the latest developments in _____ to ensure optimal patient care.
- n.* the branch of medicine concerned with the study of drugs and their effects on the body, including their properties, uses, and interactions with other substances
184. Following international law, our country does not _____ in the internal affairs of our neighbors.
- v.* to intentionally get involved in a situation to improve it or prevent it from getting worse

ANSWERS: 177. label, 178. belting, 179. transmission, 180. adjust, 181. paralyzed, 182. novel, 183. pharmacology, 184. intervene

185. He studied the _____ of radiation.

n. the science of matter and energy and their interactions

186. The organization works to _____ drug addicts and help them rebuild their lives.

v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

187. Children in an unstructured environment often feel _____.

adj. not firm or firmly fixed; likely to fail or give way, or not assured of safety

188. I sat on the _____ in the park and enjoyed the beautiful scenery.

n. a long, flat surface, often elevated and supported by legs, used for sitting, working, or displaying objects; persons who administer justice

ANSWERS: 185. physics, 186. rehabilitate, 187. insecure, 188. bench