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## Vocabulary Builder Reference from...

*Sergiu P. Pasca: How we're reverse engineering the human brain in the lab | TED Talk*

[https://www.ted.com/talks/sergiu\\_p\\_pasca\\_how\\_we\\_re\\_reverse\\_engineering\\_the\\_human\\_brain\\_in\\_the\\_lab](https://www.ted.com/talks/sergiu_p_pasca_how_we_re_reverse_engineering_the_human_brain_in_the_lab)

### All Words

#### IMPORTANT

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## Session 1: Word List

### 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**.

### 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**.

### instance

*n.* a particular example or single occurrence of something

*synonym*: example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

### 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.

## 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**.

## 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.

## contraction

*n.* the act or process of becoming smaller or shorter in size, volume, or amount

*synonym*: shrinking, compression, reduction

(1) **contraction** of a disease, (2) **contraction** in the industry

The **contraction** of the economy has led to job losses.

## extend

*v.* to broaden in scope, range, or area

*synonym*: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.

## grasp

*v.* to take hold of something or someone quickly and firmly

*synonym*: grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

## 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.

## 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**.

## clump

*n.* a small group of bushes, trees, flowers, people, etc.  
*synonym* : cluster, bunch, bundle

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

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

## neural

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

*synonym* : sensory, neuron, 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.

## organoid

*n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

*synonym* : tissue, cell culture, organ culture

(1) **organoid** culture, (2) **organoid** research

The development of **organoids** has opened up new avenues for research into the early stages of fetal development

## assembloid

*n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way

*synonym*: artificial cell, synthetic cell, construct

(1) **assembloid** growth, (2) **assembloid** technology

The **assembloid** cells were found to be highly malignant under the microscope.

## typical

*adj.* having the usual characteristics or traits of a specific group of things

*synonym*: characteristic, usual, distinctive

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

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

## characteristic

*n.* a typical feature or quality that can identify, tell apart, or describe something or somebody

*synonym*: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

## unique

*adj.* being the only one of its kind; unlike anything else

*synonym*: one-of-a-kind, unparalleled, incomparable

(1) a **unique** teacher, (2) **unique** design

The painting is **unique**, and there is no other like it.

## uniquely

*adv.* in a way that is different from all others; in a way that is not shared by others

*synonym*: singularly, exclusively, distinctively

(1) play a **uniquely** important role, (2) **uniquely** different

The painting is **uniquely** painted with a combination of watercolors and oils.

## susceptible

*adj.* easily influenced, harmed, or affected by something  
*synonym* : exposed, liable, gullible

(1) a **susceptible** young woman, (2) **susceptible** of proof  
Well-stretched muscles are less **susceptible** to injury.

## physician

*n.* a medical doctor who practices medicine  
*synonym* : doctor, practitioner, medic

(1) the advice of the **physician**, (2) consult with a **physician**  
She visited the local **physician** to seek treatment for her persistent headache.

## unconventional

*adj.* not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards

*synonym* : nontraditional, avant-garde, bizarre

(1) in an **unconventional** manner, (2) **unconventional** ideas

Her **unconventional** approach to teaching has been a hit with the students.

## 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**.

## treatment

*n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

*synonym* : remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet

The primary purpose of the **treatment** is pain relief.

**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**.

**autism** *n.* a developmental disorder characterized by difficulties in social interaction, verbal and nonverbal communication  
(1) high-functioning **autism**, (2) **autism** spectrum disorder  
There is no cure for **autism**, but early intervention and therapy can improve outcomes for individuals with the condition.

**spectrum** *n.* an ordered array of colors into which a light beam can be split  
*synonym*: range, scale, spread  
(1) a broad **spectrum** of opinion, (2) infrared **spectrum**  
This device displayed the speech **spectrum** spectrographically.

**depict** *v.* to illustrate someone or something in a photograph  
*synonym*: illustrate, describe, express  
(1) **depict** a scene, (2) **depict** a feeling of isolation  
His son had accurately **depicted** the bloom.

**paraphrase** *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning  
*synonym*: rephrase, reword, reinterpret  
(1) **paraphrase** a poem into prose, (2) **paraphrase** the meaning  
He **paraphrased** the article in his own words to avoid being accused of plagiarism.

**poke** *v.* to push or prod with a sharp object or the finger  
*synonym*: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

## telescope

*n.* a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

## accurate

*adj.* correct and exact in all details

*synonym*: exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

## representation

*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

*synonym*: delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

## mumbo

*n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask

*synonym*: nonsense, gibberish, hocus-pocus

(1) **mumbo-jumbo** mystery, (2) science **mumbo** jumbo

The politician's speech was **mumbo** jumbo and needed to be clearer to the audience.

## jumbo

*n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

*synonym*: elephantine, mammoth, giant

(1) **jumbo** jet, (2) **jumbo** shrimp

I need to buy a **jumbo-sized** bag of dog food for my large-breed puppy.

## 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**.

## coax

*v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly

*synonym*: persuade, cajole, lure

(1) **coax** a confession, (2) **coax** a smile

She tried to **coax** her cat out of the tree with a can of tuna.

## biology

*n.* the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

## reprogram

*v.* to modify or recreate a program

*synonym*: recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to remove the safeguard.

## genetic

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

*synonym*: hereditary, genetical, inborn

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

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



## cellular

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

*synonym* : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

## alchemy

*n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

*synonym* : sorcery, magic, transmutation

(1) **alchemy** experiment, (2) **alchemy** of emotions

Today, the study of **alchemy** remains an important part of the history of science and philosophy

## magical

*adj.* produced by or containing supernatural powers

*synonym* : enchanting, occult, supernatural

(1) **magical** place, (2) **magical** powers

When I was a child, my mother often cast **magical** spells to ease my pain whenever I was injured.

## dissociation

*n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms

*synonym* : separation, detachment, disconnection

(1) trauma-related **dissociation**, (2) **dissociation** reaction

His **dissociation** from his emotions made him distant and unresponsive.

## aggregate

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

*synonym* : total, sum, whole

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

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

## sphere

*n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

*synonym* : ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

## chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

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

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

## 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.

## cue

*n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

*synonym* : signal, sign, hint

(1) **cue** card, (2) visual **cue**

The director gave the actor a **cue** to begin the scene.

## resemble

*v.* to look like or be similar to someone or something

*synonym* : look like, be similar to

(1) **resemble** each other, (2) **resemble** her mother

The brothers **resemble** each other in the hobby.

## 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.

## recipe

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

*synonym*: instructions, formula, method

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

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

## cerebral

*adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical

*synonym*: brain, mental, intellectual

(1) **cerebral** palsy, (2) **cerebral** cortex

The patient experienced a **cerebral** hemorrhage and required surgery.

## cortex

*n.* the outermost layer of an organ, especially the brain

(1) **cortex** cells, (2) visual **cortex** neuron

The cerebral **cortex** consists of six layers.

## slightly

*adv.* in a small degree or extent; a little

*synonym*: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

## combination

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

*synonym*: blend, hybrid, compounding

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

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

## guidance

*n.* advice or instructions given to help direct someone's behavior or decision-making

*synonym*: advice, direction, support

(1) vocational **guidance**, (2) **guidance** counselor

The mentor provided **guidance** to the young entrepreneur, helping her navigate the business world.

## cluster

*n.* a group of similar things or people close together, often forming a distinct mass or unit

*synonym*: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

## jar

*n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

*synonym*: container, vessel, pot

(1) a **jar** of jam, (2) a water **jar**

He placed the coins in a **jar** to save for a trip.

## electrical

*adj.* relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

## sparkle

*v.* to emit or reflect bright flashes of light, especially with animation and joy

*synonym*: shine, glimmer, twinkle

(1) **sparkle** like a gem, (2) **sparkle** from receiving light

The diamond **sparkled** in the sunlight.

## 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.

## remarkable

*adj.* worthy of attention because unusual or special

*synonym*: outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of

knowledge

The election was a **remarkable** success for the Whigs.

## oxygen

*n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

## premature

*adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy

*synonym* : prematurely born, untimely, early

(1) **premature** birth, (2) **premature** death

The **premature** baby was small but healthy.

## incubator

*n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

*synonym* : hatchery, brooder, nursery

(1) infant **incubator**, (2) business **incubator** program

The eggs were placed in an artificial **incubator** to ensure proper hatching conditions.

## concentration

*n.* the ability to focus all your time and energy on one thing without thinking about anything else.

*synonym* : attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

## 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**.

## responsible

*adj.* answerable or accountable for something within one's power, control, or management

*synonym*: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

## expansion

*n.* the process of becoming larger or more extensive, or the result of this process

*synonym*: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

## dimension

*n.* a measurable extent of a particular kind, such as width, height, or length

*synonym*: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

## equivalent

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

*synonym*: equal, counterpart, match

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

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

## transit

*n.* the act or process of passing through or across a place or state; transportation

*synonym*: transportation, passage, transfer

(1) a **transit** visa, (2) mass **transit**

Public **transit** is an essential service for many cities.

## postnatal

*adj.* referring to the period following the birth of a child or to any event or process occurring during that period

*synonym* : postpartum, after-birth, post-delivery

(1) **postnatal** care, (2) **postnatal** depression

After having a baby, women undergo **postnatal** checkups to monitor their physical and emotional health.

## uterus

*n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth

*synonym* : womb

(1) **uterus** cancer, (2) bleeding from **uterus**

The physician prescribed medication to relieve the contraction of the **uterus**.

## molecular

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

*synonym* : microscopic, atomic

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

**Molecular** weight is the sum of all the atoms.

## mechanism

*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

*synonym* : means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

## underlie

*v.* to be the support, basis, hidden cause of something; to be located under or below

*synonym* : govern, control, determine

(1) **underlie** the theory of the big bang, (2) **underlie** the current economic deadlock

His bitter experiences **underlie** his moral principles.

## strategy

*n.* a detailed plan of action designed to achieve a long-term or overall goal.

*synonym* : approach, procedure, scenario

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

Our plan includes a comprehensive marketing **strategy**.

## 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.

## decelerate

*v.* to slow down or reduce the speed of something; to decrease in speed

*synonym* : slow down, slacken, brake

(1) **decelerate** slowly, (2) **decelerate** approach

The driver had to **decelerate** quickly to avoid hitting the red light.

## rejuvenate

*v.* to make someone or something look or feel younger, fresher, or more lively

*synonym* : revitalize, renew, refresh

(1) **rejuvenate** a downtown area, (2) **rejuvenate** energy

The spa treatment promised to **rejuvenate** her skin and leave her feeling refreshed.

## pioneering

*adj.* involving new ideas or methods; being the first of their kind; leading the way in a particular field

*synonym* : innovative, groundbreaking, trailblazing

(1) **pioneering** research, (2) **pioneering** spirit

The **pioneering** scientist developed a breakthrough technology that revolutionized the industry.

## frontier

*n.* a border that separates two countries, or the area near this line

*synonym* : border, boundary, borderland



(1) **frontier** disputes, (2) the Italian **frontier** with Switzerland  
He worked at the **frontier** of behavioral economics.

## ethics

*n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong

*synonym*: morals, principles, moralities

(1) political **ethics**, (2) **ethics** of journalism

This scripture provides the code of **ethics** for the religion.

## replica

*n.* an exact copy of something such as a work of art

*synonym*: imitation, reproduction, replication

(1) miniature **replica**, (2) exact **replica**

An artist sculpted a full-size **replica** of her body.

## minibrain

*n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development

*synonym*: cerebral organoid, brain organoid, mini cerebrum

(1) **minibrain** in vitro models, (2) **minibrain** modeling

The development of **minibrains** has revolutionized the study of neurological disorders.

## monster

*n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful

*synonym*: giant, freak, behemoth

(1) horde of **monsters**, (2) **monster** film

This car has a **monster** engine.

## complexity

*n.* the state or quality of being complicated or intricate and difficult to understand

*synonym*: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

## sensory

*adj.* of or relating to the physical senses

*synonym* : receptive, sensuous, neural

(1) a **sensory** organ, (2) a child with **sensory** issues

Sharks have highly developed **sensory** systems and are extremely sensitive creatures.

## advance

*v.* to go or move forward; to develop in a positive way

*synonym* : progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

## communal

*adj.* belonging to or used by a group rather than individuals; for common use

*synonym* : collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

**Communal** elections were held in several European countries.

## ethical

*adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these

*synonym* : honorable, moral, virtuous

(1) an **ethical** doctrine, (2) shoulder **ethical** responsibility

The president must have the highest **ethical** standards.

## societal

*adj.* relating to society or social relationships

*synonym* : social, communal, cultural

(1) **societal** norms, (2) **societal** expectations

The **societal** pressure to conform is strong in this community.

## implication

*n.* something that is inferred or indirectly stated; the act or fact of being involved in something

*synonym* : suggestion, association, conclusion

(1) the **implication** in a crime, (2) the **implication** of a word

His poem has a very significant **implication**.

## regulation

*n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule

*synonym*: constraint, restriction, rule

(1) a company **regulation**, (2) **regulation** by the government

The **regulation** approved by Congress was perfunctorily implemented.

## 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.

## essentially

*adv.* relating to the essential features or concepts of anything

*synonym*: fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

**Essentially**, a society is an organism.

## fascinating

*adj.* extremely interesting

*synonym*: alluring, intriguing, captivating

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

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

## fused

*adj.* joined together or combined into one; blended or integrated in a way that creates a new entity

*synonym*: merged, blended, united

(1) **fused** glass, (2) **fused** bones

The **fused** wires in the electrical circuit caused a power outage.

## migrate

*v.* to move from one country or region to another and settle there; to move from one place to another periodically or seasonally

*synonym* : relocate, emigrate, roam

(1) **migrate** across borders, (2) **migrate** a service

Many Germans **migrated** to South America in the mid-19th century.

## absolute

*adj.* perfect or complete or to the most considerable degree possible

*synonym* : complete, infrangible, indisputable

(1) **absolute** loyalty, (2) an **absolute** must

Gandhi had an **absolute** zeal for nonviolence.

## awe

*n.* a feeling of respect and wonder inspired by someone or something greatly admired

*synonym* : wonder, amazement, reverence

(1) a feeling of **awe**, (2) in **awe** of the situation

The **awe-inspiring** mountains dominate the landscape.

## undergo

*v.* to go through something unpleasant or that involves a change

*synonym* : experience, suffer, endure

(1) **undergo** surgery, (2) **undergo** a decrease

The train has to **undergo** rigorous safety checks.

## peculiar

*adj.* odd and uncommon, sometimes in an unpleasant way

*synonym* : bizarre, abnormal, odd

(1) **peculiar** way, (2) **peculiar** people

The juice has a **peculiar** taste.

## dysfunction

*n.* a problem or fault in a system, organism, or part of the body or machine

*synonym* : malfunction, disorder, disfunction

(1) **dysfunction** of kidneys, (2) brain **dysfunction**

The **dysfunction** in the relationship was causing problems

for both partners.

## **schizophrenia**

*n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

*synonym*: psychosis, disorder, mental illness

(1) **schizophrenia** spectrum disorder, (2) **schizophrenia** treatment

The **schizophrenia** patient was experiencing severe auditory hallucinations.

## **devastating**

*adj.* causing a great deal of destruction or damage

*synonym*: destructive, annihilative, disastrous

(1) have **devastating** effects, (2) treat this **devastating** disease

This typhoon was the most **devastating** in years.

## **psychiatric**

*adj.* of or relating to the treatment or study of mental illness or disorders

*synonym*: mental, psychological, psychotherapeutic

(1) people with **psychiatric** disorders, (2) **psychiatric** hospital

The **psychiatric** evaluation revealed that the patient had been suffering from anxiety.

## **striking**

*adj.* attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner

*synonym*: arresting, astonishing, exceptional

(1) **striking** innovation, (2) **striking** evidence

The two plays have many **striking** parallels.

## **psychiatry**

*n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness

*synonym*: mental health, psychology, psychoanalysis

(1) **psychiatry** therapy, (2) biological **psychiatry**

The field of **psychiatry** is constantly evolving, with new treatments and approaches being developed all the time.

## branch

*n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

*synonym*: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

## 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.

## avatar

*n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.

*synonym*: embodiment, expression, apotheosis

(1) digital **avatar**, (2) the **avatar** of the authority

A person's cyberspace **avatar** often represents the appearance and behavior that the person wants to be.

## dissect

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

*synonym*: analyze, examine, study

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

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

## syndrome

*n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder

*synonym*: disorder, condition, complication

(1) **syndrome** of dementia, (2) acute **syndrome**

The patient was diagnosed with a rare genetic **syndrome**.

## associate

*v.* to mentally connect someone or something with someone or something else

*synonym*: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

## epilepsy

*n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

*synonym*: seizures, convulsions, fits

(1) **epilepsy** seizure, (2) **epilepsy** medication

The flashing lights at the concert triggered her **epilepsy** and caused a seizure.

## 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.

## defect

*n.* an imperfection, shortcoming, or lack of something or someone

*synonym*: fault, blemish, flaw

(1) visual **defects**, (2) **defects** of character

**Defects** in the design could cause much worse issues.

## therapeutic

*adj.* relating to or involved in the treatment of illness or injury

*synonym*: healing, remedial, curative

(1) **therapeutic** massage, (2) **therapeutic** administration

Yoga is known to have **therapeutic** benefits for the mind and body.

## avenue

*n.* a wide road in a town or city, especially with trees or tall buildings on both sides; a line of approach

*synonym*: artery, roadway, street

(1) an **avenue** of poplars, (2) an **avenue** to success  
They explored every **avenue** they could think of.

## insight

*n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

*synonym*: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**

We gained various **insights** by analyzing the vast amount of data owned by the company.

## revolutionize

*v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas

*synonym*: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

## evolution

*n.* a gradual process of transformation of living things

*synonym*: elaboration, expansion, transition

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

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

## 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.

## 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.

## purple

*adj.* of a color intermediate between red and blue  
*synonym*: violet

(1) deep **purple**, (2) **purple** sweet potatoes  
The plant has a stunning **purple** blossom.

## fuse

*n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

*synonym*: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another  
He has a short **fuse**.

## spectacular

*adj.* striking or impressive to look at or in performance or achievement

*synonym*: breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth  
The **spectacular** fireworks display was the highlight of the festival.

## motor

*n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

*synonym*: actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control  
Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

## stimulus

*n.* something that causes growth or arouses action

*synonym*: incitement, inspiration, motivation

(1) a response to a **stimulus**, (2) economic **stimulus**  
This book provides children with ideas and a **stimulus** for outside recreation.

## 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.

## contract

*n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

*synonym*: agreement, deal, arrangement

(1) employment **contract**, (2) **contract** law

The company signed a **contract** with the supplier for the delivery of goods.

## 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.

## 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.

## opportune

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

*synonym*: suitable, timely, practical

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

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

## reverse

*v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or

moving toward the rear

*synonym* : overturn, shift, switch

(1) **reverse** the trend, (2) **reverse** the order

The restaurant **reversed** a ban on smoking.

## fiction

*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

*synonym* : fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

## routinely

*adv.* on a regular or habitual basis; in a manner that is customary or expected

*synonym* : habitually, regularly, customarily

(1) **routinely** check, (2) **routinely** scheduled maintenance

They **routinely** conduct fire drills to ensure everyone in the building knows what to do in an emergency.

## derive

*v.* to obtain or receive something from a source

*synonym* : deduce, judge, infer

(1) **derive** a conclusion, (2) **derive** knowledge from books

These English words are **derived** from Latin.

## neuropsychiatric

*adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

*synonym* : neurobehavioral, neuropsychological, psychiatric

(1) **neuropsychiatric** disorder, (2) **neuropsychiatric** evaluation

Researchers are studying the **neuropsychiatric** effects of certain medications on the brain.

## infect

*v.* to affect a person, an animal, or a plant with a disease-causing organism

*synonym* : pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

## virus

*n.* a tiny infectious organic material that causes disease in people, animals, and plants

*synonym*: bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

## polio

*n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

*synonym*: poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

## statistician

*n.* a person who studies or is an expert in statistics

*synonym*: actuary

(1) professional **statisticians**, (2) environmental **statistician**

The firm employs several **statisticians** to develop a recommendation engine.

## recreate

*v.* to make something that existed previously happen or appear to exist again

*synonym*: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

## Session 2: Spelling

- |                                       |   |
|---------------------------------------|---|
| 1. br___h office                      | <i>n.</i> a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization  |
| 2. pu___e sweet potatoes              | <i>adj.</i> of a color intermediate between red and blue  |
| 3. the great di_____ry of the century | <i>n.</i> the act or process of finding information, a place, or an object, or learning about something that was previously not known               |
| 4. industrial ex_____on               | <i>n.</i> the process of becoming larger or more extensive, or the result of this process   |
| 5. un_____o a decrease                | <i>v.</i> to go through something unpleasant or that involves a change  |
| 6. a facial ti___e                    | <i>n.</i> an ensemble of similar cells of the animal or plant that together carry out a specific function   |
| 7. people with psy_____ic disorders   | <i>adj.</i> of or relating to the treatment or study of mental illness or disorders   |
| 8. st_____ng innovation               | <i>adj.</i> attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner                                    |
| 9. con_____ion of armaments           | <i>n.</i> the ability to focus all your time and energy on one thing without thinking about anything else.  |
| 10. first-aid tr_____nt               | <i>n.</i> the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness. |

ANSWERS: 1. branch, 2. purple, 3. discovery, 4. expansion, 5. undergo, 6. tissue, 7. psychiatric, 8. striking, 9. concentration, 10. treatment

11. the me\_\_\_\_\_sm for DNA replication     *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
12. a response to a st\_\_\_\_\_us     *n.* something that causes growth or arouses action
13. reg\_\_\_\_\_on by the government     *n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
14. cellular signaling pa\_\_\_\_\_ys     *n.* a track that constitutes or serves as a path; an approach or a way of doing something
15. so\_\_\_\_\_al expectations     *adj.* relating to society or social relationships
16. psy\_\_\_\_\_ry therapy     *n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness
17. meet with opp\_\_\_\_\_on     *n.* the act of disagreeing or resisting; the state of strong disagreement
18. an av\_\_\_\_\_e of poplars     *n.* a wide road in a town or city, especially with trees or tall buildings on both sides; a line of approach
19. 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
20. al\_\_\_\_\_y of emotions     *n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

ANSWERS: 11. mechanism, 12. stimulus, 13. regulation, 14. pathway, 15. societal, 16. psychiatry, 17. opposition, 18. avenue, 19. cord, 20. alchemy

- |                                 |  |
|---------------------------------|--|
| 21. a profound in_____t         | <i>n.</i> the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like   |
| 22. a cl__p of trees            | <i>n.</i> a small group of bushes, trees, flowers, people, etc.  |
| 23. cognitive com_____ty        | <i>n.</i> the state or quality of being complicated or intricate and difficult to understand   |
| 24. fu__d bones                 | <i>adj.</i> joined together or combined into one; blended or integrated in a way that creates a new entity   |
| 25. mi_____in in vitro models   | <i>n.</i> a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development |
| 26. ne___l networks in AI       | <i>adj.</i> of or relating to a nerve or the nervous system that includes the brain  |
| 27. vo_____ry action            | <i>adj.</i> done of one's own free will; without being forced or coerced   |
| 28. the advice of the ph_____an | <i>n.</i> a medical doctor who practices medicine  |
| 29. tr_____rm heat into power   | <i>v.</i> to change in outward structure or looks;   |
| 30. re_____am a device          | <i>v.</i> to modify or recreate a program  |
| 31. DC mo__r control            | <i>n.</i> a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work   |
| 32. traditional me_____al       | <i>adj.</i> of or relating to the treatment or cure of disease   |

ANSWERS: 21. insight, 22. clump, 23. complexity, 24. fused, 25. minibrain, 26. neural, 27. voluntary, 28. physician, 29. transform, 30. reprogram, 31. motor, 32. medicinal

33. genic com\_\_\_\_\_ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
34. dys\_\_\_\_\_on of kidneys *n.* a problem or fault in a system, organism, or part of the body or machine
35. 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
36. gr\_\_p a chance *v.* to take hold of something or someone quickly and firmly
37. bleeding from ut\_\_\_\_s *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
38. 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
39. a tr\_\_\_\_\_t visa *n.* the act or process of passing through or across a place or state; transportation
40. visual de\_\_\_\_ts *n.* an imperfection, shortcoming, or lack of something or someone
41. rev\_\_\_\_\_ize the technology *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
42. exact re\_\_\_\_\_a *n.* an exact copy of something such as a work of art

ANSWERS: 33. combination, 34. dysfunction, 35. axon, 36. grasp, 37. uterus, 38. movement, 39. transit, 40. defect, 41. revolutionize, 42. replica



43. science mu\_\_o jumbo *n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
44. become increasingly com\_\_\_\_\_ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
45. ep\_\_\_\_\_sy medication *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
46. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
47. sales rep\_\_\_\_\_ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
48. a feeling of a\_e *n.* a feeling of respect and wonder inspired by someone or something greatly admired
49. a br\_\_\_h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
50. par\_\_\_\_\_se the meaning *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
51. acc\_\_\_\_\_te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly

ANSWERS: 43. mumbo, 44. complicated, 45. epilepsy, 46. biology, 47. representation, 48. awe, 49. branch, 50. paraphrase, 51. accelerate

52. look through a te\_\_\_\_\_pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
53. 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
54. de\_\_\_e a conclusion *v.* to obtain or receive something from a source
55. political et\_\_\_s *n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong
56. evolutionary bi\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
57. p\_\_e a fire *v.* to push or prod with a sharp object or the finger
58. binary rep\_\_\_\_\_ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
59. un\_\_\_\_\_ly different *adv.* in a way that is different from all others; in a way that is not shared by others
60. stuff of science fi\_\_\_\_\_n *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
61. an av\_\_\_e to success *n.* a wide road in a town or city, especially with trees or tall buildings on both sides; a line of approach

ANSWERS: 52. telescope, 53. axon, 54. derive, 55. ethics, 56. biology, 57. poke, 58. representation, 59. uniquely, 60. fiction, 61. avenue

62. ex\_\_\_d a line *v.* to broaden in scope, range, or area
63. po\_\_o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
64. employment co\_\_\_\_\_ct *n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law
65. trauma-related dis\_\_\_\_\_ion *n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms
66. 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
67. co\_\_\_\_\_al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
68. mass tr\_\_\_\_\_t *n.* the act or process of passing through or across a place or state; transportation
69. sp\_\_\_l injury *adj.* of or relating to the spine (= the long bone in the body's back)
70. po\_\_o epidemic *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

ANSWERS: 62. extend, 63. polio, 64. contract, 65. dissociation, 66. disorder, 67. communal, 68. transit, 69. spinal, 70. polio

71. digital av\_\_\_r *n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.
72. pe\_\_\_\_\_ar people *adj.* odd and uncommon, sometimes in an unpleasant way
73. dec\_\_\_\_\_te slowly *v.* to slow down or reduce the speed of something; to decrease in speed
74. live in a cl\_\_\_\_\_r *n.* a group of similar things or people close together, often forming a distinct mass or unit
75. a mo\_\_r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
76. my friend's cha\_\_\_\_\_tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
77. sch\_\_\_\_\_nia treatment *n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior
78. ju\_\_o shrimp *n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"
79. an et\_\_\_\_\_l doctrine *adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these

ANSWERS: 71. avatar, 72. peculiar, 73. decelerate, 74. cluster, 75. motor, 76. characteristic, 77. schizophrenia, 78. jumbo, 79. ethical

80. ad\_\_\_\_e a cooperative relationship     *v.* to go or move forward; to develop in a positive way
81. a water j\_r     *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
82. sy\_\_\_\_me of dementia     *n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder
83. spe\_\_\_\_ar view     *adj.* striking or impressive to look at or in performance or achievement
84. permanent br\_\_n damage     *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
85. ab\_\_\_\_te loyalty     *adj.* perfect or complete or to the most considerable degree possible
86. mo\_\_\_\_ar structure     *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
87. c\_e card     *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
88. ju\_\_o jet     *n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

ANSWERS: 80. advance, 81. jar, 82. syndrome, 83. spectacular, 84. brain, 85. absolute, 86. molecular, 87. cue, 88. jumbo

89. ma\_\_\_\_\_l place *adj.* produced by or containing supernatural powers
90. the crosswise di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length
91. a ce\_\_\_\_\_ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
92. become ess\_\_\_\_\_ly same *adv.* relating to the essential features or concepts of anything
93. for in\_\_\_\_\_ce *n.* a particular example or single occurrence of something
94. his research area of  
con\_\_\_\_\_ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
95. acc\_\_\_\_\_te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
96. in an unc\_\_\_\_\_nal manner *adj.* not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards
97. play a un\_\_\_\_\_ly important role *adv.* in a way that is different from all others; in a way that is not shared by others
98. re\_\_\_e book *n.* a set of instructions for preparing a dish, including the ingredients and the method of cooking
99. re\_\_\_\_\_e the trend *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

ANSWERS: 89. magical, 90. dimension, 91. cellular, 92. essentially, 93. instance, 94. concentration, 95. accelerate, 96. unconventional, 97. uniquely, 98. recipe, 99. reverse

100. a se\_\_\_\_\_y organ *adj.* of or relating to the physical senses
101. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
102. have dev\_\_\_\_\_ng effects *adj.* causing a great deal of destruction or damage
103. treat this dev\_\_\_\_\_ng disease *adj.* causing a great deal of destruction or damage
104. fr\_\_\_\_\_er disputes *n.* a border that separates two countries, or the area near this line
105. professional sta\_\_\_\_\_ians *n.* a person who studies or is an expert in statistics
106. defense me\_\_\_\_\_sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
107. re\_\_\_\_\_am a database *v.* to modify or recreate a program
108. mo\_\_\_\_\_ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
109. ty\_\_\_\_\_l leader *adj.* having the usual characteristics or traits of a specific group of things
110. business in\_\_\_\_\_or program *n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

ANSWERS: 100. sensory, 101. opportune, 102. devastating, 103. devastating, 104. frontier, 105. statistician, 106. mechanism, 107. reprogram, 108. molecular, 109. typical, 110. incubator

111. rev\_\_\_\_\_ize the industry      *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
112. or\_\_\_\_\_id culture      *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
113. p\_\_e around the desk      *v.* to push or prod with a sharp object or the finger
114. economic st\_\_\_\_\_us      *n.* something that causes growth or arouses action
115. loss of muscle ti\_\_\_\_\_e      *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
116. the\_\_\_\_\_ic massage      *adj.* relating to or involved in the treatment of illness or injury
117. ind\_\_\_\_\_al freedom      *n.* a single person or thing, as distinct from a group
118. environmental sta\_\_\_\_\_ian      *n.* a person who studies or is an expert in statistics
119. f\_\_e with one another      *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
120. re\_\_\_\_\_e collection      *n.* a set of instructions for preparing a dish, including the ingredients and the method of cooking

ANSWERS: 111. revolutionize, 112. organoid, 113. poke, 114. stimulus, 115. tissue, 116. therapeutic, 117. individual, 118. statistician, 119. fuse, 120. recipe



121. military st\_\_\_\_\_gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
122. human ev\_\_\_\_\_on *n.* a gradual process of transformation of living things
123. new di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length
124. 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
125. pe\_\_\_\_\_ar way *adj.* odd and uncommon, sometimes in an unpleasant way
126. re\_\_\_\_\_le her mother *v.* to look like or be similar to someone or something
127. a child with se\_\_\_\_\_y issues *adj.* of or relating to the physical senses
128. increase sl\_\_\_\_\_ly *adv.* in a small degree or extent; a little
129. horde of mo\_\_\_\_\_rs *n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
130. ce\_\_\_\_\_al palsy *adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical
131. fas\_\_\_\_\_ng story *adj.* extremely interesting
132. ass\_\_\_\_\_id growth *n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way

ANSWERS: 121. strategy, 122. evolution, 123. dimension, 124. discovery, 125. peculiar, 126. resemble, 127. sensory, 128. slightly, 129. monster, 130. cerebral, 131. fascinating, 132. assemblid

133. business sp\_\_\_e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
134. fu\_\_d glass *adj.* joined together or combined into one; blended or integrated in a way that creates a new entity
135. re\_\_\_\_\_te a single country *v.* to make something that existed previously happen or appear to exist again
136. completely fas\_\_\_\_\_ng to me *adj.* extremely interesting
137. basic br\_\_n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
138. high-functioning au\_\_\_m *n.* a developmental disorder characterized by difficulties in social interaction, verbal and nonverbal communication
139. par\_\_\_\_\_se a poem into prose *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
140. provide ac\_\_\_\_\_te information *adj.* correct and exact in all details
141. 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
142. medical l\_b *n.* a workplace for the conduct of scientific research; a laboratory
143. vocational gu\_\_\_\_\_ce *n.* advice or instructions given to help direct someone's behavior or decision-making

ANSWERS: 133. sphere, 134. fused, 135. recreate, 136. fascinating, 137. brain, 138. autism, 139. paraphrase, 140. accurate, 141. circuit, 142. lab, 143. guidance

144. ess\_\_\_\_\_ly correct *adv.* relating to the essential features or concepts of anything
145. ro\_\_\_\_\_ly check *adv.* on a regular or habitual basis; in a manner that is customary or expected
146. rem\_\_\_\_\_le achievement *adj.* worthy of attention because unusual or special
147. dis\_\_\_\_\_ion reaction *n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms
148. re\_\_\_\_\_le each other *v.* to look like or be similar to someone or something
149. ac\_\_\_\_\_te measurements *adj.* correct and exact in all details
150. di\_\_\_\_\_t the data *v.* to cut into pieces to study the structure of something in detail
151. a un\_\_\_\_\_e teacher *adj.* being the only one of its kind; unlike anything else
152. pa\_\_\_\_\_y to understanding *n.* a track that constitutes or serves as a path; an approach or a way of doing something
153. the av\_\_\_\_r of the authority *n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.
154. 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

ANSWERS: 144. essentially, 145. routinely, 146. remarkable, 147. dissociation, 148. resemble, 149. accurate, 150. dissect, 151. unique, 152. pathway, 153. avatar, 154. movement

155. sus\_\_\_\_\_le of proof *adj.* easily influenced, harmed, or affected by something
156. get ne\_\_\_\_\_s *adj.* worried and anxious about something; relating to the nerves
157. miniature re\_\_\_\_\_a *n.* an exact copy of something such as a work of art
158. toxic ch\_\_\_\_\_als *adj.* relating to or connected with chemistry;
159. have ex\_\_\_\_\_ve vocabulary *adj.* covering a large area; having a wide range
160. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
161. as\_\_\_\_\_te with people widely *v.* to mentally connect someone or something with someone or something else
162. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
163. st\_\_\_\_\_ng evidence *adj.* attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner
164. neu\_\_\_\_\_ric evaluation *adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena
165. a broad sp\_\_\_\_\_um of opinion *n.* an ordered array of colors into which a light beam can be split
166. co\_\_\_\_\_ct law *n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

ANSWERS: 155. susceptible, 156. nervous, 157. replica, 158. chemical, 159. extensive, 160. complexity, 161. associate, 162. lab, 163. striking, 164. neuropsychiatric, 165. spectrum, 166. contract

167. consult with a ph\_\_\_\_\_an      *n.* a medical doctor who practices medicine
168. the Italian fr\_\_\_\_\_er with Switzerland      *n.* a border that separates two countries, or the area near this line
169. data ag\_\_\_\_\_te      *n.* a collection or sum of different things often used to describe a total or combination of items
170. a j\_r of jam      *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
171. de\_\_\_ts of character      *n.* an imperfection, shortcoming, or lack of something or someone
172. lab\_\_\_\_\_ry accident      *n.* a workplace for doing scientific research or teaching science; a lab
173. co\_\_\_x cells      *n.* the outermost layer of an organ, especially the brain
174. 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
175. 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
176. mo\_\_\_\_\_r film      *n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful

ANSWERS: 167. physician, 168. frontier, 169. aggregate, 170. jar, 171. defect, 172. laboratory, 173. cortex, 174. cord, 175. disorder, 176. monster

177. share my in\_\_\_\_\_ts *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
178. 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
179. con\_\_\_\_\_on of a disease *n.* the act or process of becoming smaller or shorter in size, volume, or amount
180. in\_\_\_\_\_t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
181. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
182. an ab\_\_\_\_\_te must *adj.* perfect or complete or to the most considerable degree possible
183. tr\_\_\_\_\_nt by diet *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
184. the\_\_\_\_\_ic administration *adj.* relating to or involved in the treatment of illness or injury
185. sl\_\_\_\_\_ly alkaline soils *adv.* in a small degree or extent; a little
186. brain and sp\_\_\_\_\_l cord *adj.* of or relating to the spine (= the long bone in the body's back)
187. 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

ANSWERS: 177. insight, 178. circuit, 179. contraction, 180. infect, 181. medicinal, 182. absolute, 183. treatment, 184. therapeutic, 185. slightly, 186. spinal, 187. stem

188. spread of the vi\_\_s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
189. ass\_\_\_\_\_id technology *n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way
190. et\_\_\_s of journalism *n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong
191. pr\_\_\_\_\_re birth *adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy
192. ma\_\_\_\_\_l powers *adj.* produced by or containing supernatural powers
193. re\_\_\_\_\_e the order *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear
194. ep\_\_\_\_\_sy seizure *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
195. ex\_\_\_\_\_on project *n.* the process of becoming larger or more extensive, or the result of this process
196. ne\_\_\_l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 188. virus, 189. assembloid, 190. ethics, 191. premature, 192. magical, 193. reverse, 194. epilepsy, 195. expansion, 196. neural

197. a binocular te\_\_\_\_\_pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
198. mi\_\_\_\_\_e across borders *v.* to move from one country or region to another and settle there; to move from one place to another periodically or seasonally
199. rej\_\_\_\_\_te a downtown area *v.* to make someone or something look or feel younger, fresher, or more lively
200. a company reg\_\_\_\_\_on *n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
201. equ\_\_\_\_\_nt amounts *n.* having the same value, quality, meaning, purpose, etc.
202. di\_\_\_\_\_t a personality *v.* to cut into pieces to study the structure of something in detail
203. dec\_\_\_\_\_te approach *v.* to slow down or reduce the speed of something; to decrease in speed
204. non-fi\_\_\_\_\_n bestseller *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
205. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
206. ce\_\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

ANSWERS: 197. telescope, 198. migrate, 199. rejuvenate, 200. regulation, 201. equivalent, 202. dissect, 203. decelerate, 204. fiction, 205. opportune, 206. cellular



207. have ge_____c testing	<i>adj.</i> of or relating to genes (= parts of the DNA in cells) or the science of genes
208. development of the ne_____s system	<i>adj.</i> worried and anxious about something; relating to the nerves
209. a sus_____le young woman	<i>adj.</i> easily influenced, harmed, or affected by something
210. pio_____ng spirit	<i>adj.</i> involving new ideas or methods; being the first of their kind; leading the way in a particular field
211. re_____te the feeling of the 1920s	<i>v.</i> to make something that existed previously happen or appear to exist again
212. achieve spe_____ar growth	<i>adj.</i> striking or impressive to look at or in performance or achievement
213. au____m spectrum disorder	<i>n.</i> a developmental disorder characterized by difficulties in social interaction, verbal and nonverbal communication
214. de____e knowledge from books	<i>v.</i> to obtain or receive something from a source
215. infant in_____or	<i>n.</i> an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses
216. a civil en_____er	<i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software
217. opp_____on campaign	<i>n.</i> the act of disagreeing or resisting; the state of strong disagreement

ANSWERS: 207. genetic, 208. nervous, 209. susceptible, 210. pioneering, 211. recreate, 212. spectacular, 213. autism, 214. derive, 215. incubator, 216. engineer, 217. opposition

218. the imp\_\_\_\_\_on in a crime *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
219. de\_\_\_t a scene *v.* to illustrate someone or something in a photograph
220. com\_\_\_\_\_on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
221. the rem\_\_\_\_\_le breadth of knowledge *adj.* worthy of attention because unusual or special
222. stripes cha\_\_\_\_\_tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
223. a strain of vi\_\_\_s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
224. notable in\_\_\_\_\_ce *n.* a particular example or single occurrence of something
225. pr\_\_\_\_\_re death *adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy
226. un\_\_\_\_\_ie the theory of the big bang *v.* to be the support, basis, hidden cause of something; to be located under or below
227. a private ind\_\_\_\_\_al *n.* a single person or thing, as distinct from a group
228. c\_\_\_x a smile *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly

ANSWERS: 218. implication, 219. depict, 220. combination, 221. remarkable, 222. characteristic, 223. virus, 224. instance, 225. premature, 226. underlie, 227. individual, 228. coax

229. an ele\_\_\_\_\_al storm *adj.* relating to electricity
230. 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
231. rej\_\_\_\_\_te energy *v.* to make someone or something look or feel younger, fresher, or more lively
232. fairly ty\_\_\_\_\_l symptoms *adj.* having the usual characteristics or traits of a specific group of things
233. vo\_\_\_\_\_ry participation *adj.* done of one's own free will; without being forced or coerced
234. 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
235. the hydrogen binds the ox\_\_\_n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
236. mi\_\_\_\_\_e a service *v.* to move from one country or region to another and settle there; to move from one place to another periodically or seasonally
237. po\_\_\_\_\_al depression *adj.* referring to the period following the birth of a child or to any event or process occurring during that period
238. cl\_\_p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
239. co\_\_\_\_\_al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use

ANSWERS: 229. electrical, 230. neuron, 231. rejuvenate, 232. typical, 233. voluntary, 234. communicate, 235. oxygen, 236. migrate, 237. postnatal, 238. clump, 239. communal

240. lack of ox\_\_\_n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
241. so\_\_\_\_al norms *adj.* relating to society or social relationships
242. an ag\_\_\_\_\_te of people *n.* a collection or sum of different things often used to describe a total or combination of items
243. degree in ele\_\_\_\_\_al engineering *adj.* relating to electricity
244. sp\_\_\_\_\_e like a gem *v.* to emit or reflect bright flashes of light, especially with animation and joy
245. de\_\_\_t a feeling of isolation *v.* to illustrate someone or something in a photograph
246. c\_\_x a confession *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
247. un\_\_\_\_\_ie the current economic deadlock *v.* to be the support, basis, hidden cause of something; to be located under or below
248. or\_\_\_\_\_id research *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
249. al\_\_\_\_\_y experiment *n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

ANSWERS: 240. oxygen, 241. societal, 242. aggregate, 243. electrical, 244. sparkle, 245. depict, 246. coax, 247. underlie, 248. organoid, 249. alchemy

250. po\_\_\_\_\_al care *adj.* referring to the period following the birth of a child or to any event or process occurring during that period
251. brain dys\_\_\_\_\_on *n.* a problem or fault in a system, organism, or part of the body or machine
252. gr\_\_p his hand *v.* to take hold of something or someone quickly and firmly
253. pio\_\_\_\_\_ng research *adj.* involving new ideas or methods; being the first of their kind; leading the way in a particular field
254. con\_\_\_\_\_on in the industry *n.* the act or process of becoming smaller or shorter in size, volume, or amount
255. ro\_\_\_\_\_ly scheduled maintenance *adv.* on a regular or habitual basis; in a manner that is customary or expected
256. sp\_\_\_e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
257. biological psy\_\_\_\_\_ry *n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness
258. ad\_\_\_\_\_e the technology *v.* to go or move forward; to develop in a positive way
259. un\_\_\_e design *adj.* being the only one of its kind; unlike anything else
260. res\_\_\_\_\_le for a customer service *adj.* answerable or accountable for something within one's power, control, or management

ANSWERS: 250. postnatal, 251. dysfunction, 252. grasp, 253. pioneering, 254. contraction, 255. routinely, 256. sphere, 257. psychiatry, 258. advance, 259. unique, 260. responsible

261. ce\_\_\_\_al cortex *adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical
262. infrared sp\_\_\_\_um *n.* an ordered array of colors into which a light beam can be split
263. neu\_\_\_\_\_ric disorder *adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena
264. ex\_\_\_d the warranty *v.* to broaden in scope, range, or area
265. ex\_\_\_\_\_ve experience *adj.* covering a large area; having a wide range
266. a com\_\_\_\_\_ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
267. in\_\_\_t a computer with a virus *v.* to affect a person, an animal, or a plant with a disease-causing organism
268. visual c\_e *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
269. ev\_\_\_\_\_on theory *n.* a gradual process of transformation of living things
270. mi\_\_\_\_\_in modeling *n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development

ANSWERS: 261. cerebral, 262. spectrum, 263. neuropsychiatric, 264. extend, 265. extensive, 266. complicated, 267. infect, 268. cue, 269. evolution, 270. minibrain

271. f\_\_e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
272. sp\_\_\_\_e from receiving light *v.* to emit or reflect bright flashes of light, especially with animation and joy
273. com\_\_\_\_\_te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
274. shoulder et\_\_\_\_l responsibility *adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these
275. a ge\_\_\_\_c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
276. anthropology lab\_\_\_\_ry *n.* a workplace for doing scientific research or teaching science; a lab
277. unc\_\_\_\_\_nal ideas *adj.* not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards
278. acute sy\_\_\_\_me *n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder
279. un\_\_\_\_o surgery *v.* to go through something unpleasant or that involves a change
280. gu\_\_\_\_ce counselor *n.* advice or instructions given to help direct someone's behavior or decision-making

ANSWERS: 271. fuse, 272. sparkle, 273. communicate, 274. ethical, 275. genetic, 276. laboratory, 277. unconventional, 278. syndrome, 279. undergo, 280. guidance

281. sch\_\_\_\_\_nia spectrum disorder     *n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior
282. psy\_\_\_\_\_ic hospital     *adj.* of or relating to the treatment or study of mental illness or disorders
283. ut\_\_\_s cancer     *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
284. the imp\_\_\_\_\_on of a word     *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
285. res\_\_\_\_\_le action     *adj.* answerable or accountable for something within one's power, control, or management
286. a cl\_\_\_\_\_r of stars     *n.* a group of similar things or people close together, often forming a distinct mass or unit
287. deep pu\_\_\_e     *adj.* of a color intermediate between red and blue
288. 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
289. 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

ANSWERS: 281. schizophrenia, 282. psychiatric, 283. uterus, 284. implication, 285. responsible, 286. cluster, 287. purple, 288. stem, 289. neuron



290. in a\_e of the situation *n.* a feeling of respect and wonder inspired by someone or something greatly admired
291. visual co\_\_\_x neuron *n.* the outermost layer of an organ, especially the brain
292. develop a st\_\_\_\_gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
293. mu\_\_o-jumbo mystery *n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
294. a ch\_\_\_\_al compound *adj.* relating to or connected with chemistry;
295. tr\_\_\_\_\_rm an education system *v.* to change in outward structure or looks;
296. equ\_\_\_\_\_nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
297. as\_\_\_\_\_te alcohol with gambling *v.* to mentally connect someone or something with someone or something else
298. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 290. awe, 291. cortex, 292. strategy, 293. mumbo, 294. chemical, 295. transform, 296. equivalent, 297. associate, 298. engineer

## Session 3: Fill in the Blanks

1. His poem has a very significant \_\_\_\_\_.  
*n.* something that is inferred or indirectly stated; the act or fact of being involved in something
2. His \_\_\_\_\_ from his emotions made him distant and unresponsive.  
*n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms
3. 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)
4. This car has a \_\_\_\_\_ engine.  
*n.* an imaginary creature that is large and has various human and animal parts; someone or something large and powerful
5. He discovered unique \_\_\_\_\_ for photochemical reactions.  
*n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
6. Gandhi had an \_\_\_\_\_ zeal for nonviolence.  
*adj.* perfect or complete or to the most considerable degree possible
7. Today, the study of \_\_\_\_\_ remains an important part of the history of science and philosophy  
*n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

ANSWERS: 1. implication, 2. dissociation, 3. spinal, 4. monster, 5. mechanisms, 6. absolute, 7. alchemy

8. He suffers from \_\_\_\_\_ breakdowns.  
*adj.* worried and anxious about something; relating to the nerves
9. The \_\_\_\_\_ in the relationship was causing problems for both partners.  
*n.* a problem or fault in a system, organism, or part of the body or machine
10. The physician prescribed medication to relieve the contraction of the \_\_\_\_\_.  
*n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
11. These English words are \_\_\_\_\_ from Latin.  
*v.* to obtain or receive something from a source
12. This typhoon was the most \_\_\_\_\_ in years.  
*adj.* causing a great deal of destruction or damage
13. After having a baby, women undergo \_\_\_\_\_ checkups to monitor their physical and emotional health.  
*adj.* referring to the period following the birth of a child or to any event or process occurring during that period
14. The official transcript contains \_\_\_\_\_ academic records.  
*adj.* correct and exact in all details
15. Understanding protein folding is a vital step in deciphering the \_\_\_\_\_ code.  
*adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
16. They spent a lot of time trying to \_\_\_\_\_ the current situation.  
*v.* to take hold of something or someone quickly and firmly

ANSWERS: 8. nervous, 9. dysfunction, 10. uterus, 11. derived, 12. devastating, 13. postnatal, 14. accurate, 15. genetic, 16. grasp

17. An infected person in the hospital will likely pass the \_\_\_\_\_ to others.  
*n.* a tiny infectious organic material that causes disease in people, animals, and plants
18. She \_\_\_\_\_ the atmosphere of the pre-war age with her stage setting.  
*v.* to make something that existed previously happen or appear to exist again
19. The \_\_\_\_\_ vaccine development is regarded as one of the greatest medical achievements of the 20th century.  
*n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
20. Energy-efficient \_\_\_\_\_ are needed to maximize the cruising distance of electric vehicles.  
*n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
21. The \_\_\_\_\_ of the earth is divided into several layers including the crust, mantle, and core.  
*n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
22. The cerebral \_\_\_\_\_ consists of six layers.  
*n.* the outermost layer of an organ, especially the brain
23. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.  
*n.* a workplace for the conduct of scientific research; a laboratory
24. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.  
*n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 17. virus, 18. recreated, 19. polio, 20. motors, 21. sphere, 22. cortex, 23. lab, 24. complexity

25. The restaurant \_\_\_\_\_ a ban on smoking.

- v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

26. This book provides children with ideas and a \_\_\_\_\_ for outside recreation.

- n.* something that causes growth or arouses action

27. The spa treatment promised to \_\_\_\_\_ her skin and leave her feeling refreshed.

- v.* to make someone or something look or feel younger, fresher, or more lively

28. Many Germans \_\_\_\_\_ to South America in the mid-19th century.

- v.* to move from one country or region to another and settle there; to move from one place to another periodically or seasonally

29. 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

30. This factory employs a \_\_\_\_\_ manufacturing system.

- adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

31. They study the \_\_\_\_\_ of the universe.

- n.* a gradual process of transformation of living things

32. 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

ANSWERS: 25. reversed, 26. stimulus, 27. rejuvenate, 28. migrated, 29. communicate, 30. cellular, 31. evolution, 32. discovery

33. The \_\_\_\_\_ approved by Congress was perfunctorily implemented.
- n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
34. The \_\_\_\_\_ party strongly disagreed with the government's proposed legislation.
- n.* the act of disagreeing or resisting; the state of strong disagreement
35. 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
36. Truth is stranger than \_\_\_\_\_.
- n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
37. The \_\_\_\_\_ scientist developed a breakthrough technology that revolutionized the industry.
- adj.* involving new ideas or methods; being the first of their kind; leading the way in a particular field
38. This artwork is \_\_\_\_\_ of her work.
- adj.* having the usual characteristics or traits of a specific group of things
39. A person's cyberspace \_\_\_\_\_ often represents the appearance and behavior that the person wants to be.
- n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.

ANSWERS: 33. regulation, 34. opposition, 35. brain, 36. fiction, 37. pioneering, 38. typical, 39. avatar

40. He placed the coins in a \_\_\_\_ to save for a trip.

*n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

41. The mentor provided \_\_\_\_\_ to the young entrepreneur, helping her navigate the business world.

*n.* advice or instructions given to help direct someone's behavior or decision-making

42. When I was a child, my mother often cast \_\_\_\_\_ spells to ease my pain whenever I was injured.

*adj.* produced by or containing supernatural powers

43. We gained various \_\_\_\_\_ by analyzing the vast amount of data owned by the company.

*n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

44. Public \_\_\_\_\_ is an essential service for many cities.

*n.* the act or process of passing through or across a place or state; transportation

45. 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

46. The \_\_\_\_\_ baby was small but healthy.

*adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy

ANSWERS: 40. jar, 41. guidance, 42. magical, 43. insights, 44. transit, 45. movement, 46. premature

47. 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

48. The \_\_\_\_\_ fireworks display was the highlight of the festival.

*adj.* striking or impressive to look at or in performance or achievement

49. The driver had to \_\_\_\_\_ quickly to avoid hitting the red light.

*v.* to slow down or reduce the speed of something; to decrease in speed

50. The painting is \_\_\_\_\_ and there is no other like it.

*adj.* being the only one of its kind; unlike anything else

51. Researchers are studying the \_\_\_\_\_ effects of certain medications on the brain.

*adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

52. This scripture provides the code of \_\_\_\_\_ for the religion.

*n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong

53. \_\_\_\_\_ in the design could cause much worse issues.

*n.* an imperfection, shortcoming, or lack of something or someone

54. 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

ANSWERS: 47. cord, 48. spectacular, 49. decelerate, 50. unique, 51. neuropsychiatric, 52. ethics, 53. Defects, 54. voluntary,



55. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.

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

56. The eggs were placed in an artificial \_\_\_\_\_ to ensure proper hatching conditions.

*n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

57. The primary purpose of the \_\_\_\_\_ is pain relief.

*n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

58. Children often \_\_\_\_\_ parents with this head cold.

*v.* to affect a person, an animal, or a plant with a disease-causing organism

59. The painting is \_\_\_\_\_ painted with a combination of watercolors and oils.

*adv.* in a way that is different from all others; in a way that is not shared by others

60. They \_\_\_\_\_ conduct fire drills to ensure everyone in the building knows what to do in an emergency.

*adv.* on a regular or habitual basis; in a manner that is customary or expected

61. The \_\_\_\_\_ evaluation revealed that the patient had been suffering from anxiety.

*adj.* of or relating to the treatment or study of mental illness or disorders

62. The two plays have many \_\_\_\_\_ parallels.

*adj.* attractive and distinctive enough to draw notice; exceedingly appealing, frequently in an odd manner

ANSWERS: 55. medicinal, 56. incubator, 57. treatment, 58. infect, 59. uniquely, 60. routinely, 61. psychiatric, 62. striking

63. He moved his body \_\_\_\_\_ to the left.

*adv.* in a small degree or extent; a little

64. The passenger grabbed for the \_\_\_\_\_ mask.

*n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

65. The company is undergoing an \_\_\_\_\_ opening new locations in several states.

*n.* the process of becoming larger or more extensive, or the result of this process

66. 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

67. An artist sculpted a full-size \_\_\_\_\_ of her body.

*n.* an exact copy of something such as a work of art

68. Our plan includes a comprehensive marketing \_\_\_\_\_.

*n.* a detailed plan of action designed to achieve a long-term or overall goal.

69. He has a short \_\_\_\_\_.

*n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

70. The company signed a \_\_\_\_\_ with the supplier for the delivery of goods.

*n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

ANSWERS: 63. slightly, 64. oxygen, 65. expansion, 66. tissue, 67. replica, 68. strategy, 69. fuse, 70. contract

71. The \_\_\_\_\_ to the safe was a secret.

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

72. His son had accurately \_\_\_\_\_ the bloom.

*v.* to illustrate someone or something in a photograph

73. A person who has been declared incompetent should have legal \_\_\_\_\_.

*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

74. The firm has grown into a large \_\_\_\_\_ manufacturing.

*adj.* relating to or connected with chemistry;

75. The \_\_\_\_\_ for the cake is passed down from generation to generation in her family.

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

76. The juice has a \_\_\_\_\_ taste.

*adj.* odd and uncommon, sometimes in an unpleasant way

77. 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

78. \_\_\_\_\_ a society is an organism.

*adv.* relating to the essential features or concepts of anything

ANSWERS: 71. combination, 72. depicted, 73. representation, 74. chemical, 75. recipe, 76. peculiar, 77. complicated, 78. Essentially,

79. The \_\_\_\_\_ wires in the electrical circuit caused a power outage.

*adj.* joined together or combined into one; blended or integrated in a way that creates a new entity

80. The \_\_\_\_\_ will repair my telephone tomorrow morning.

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

81. There is no cure for \_\_\_\_\_ but early intervention and therapy can improve outcomes for individuals with the condition.

*n.* a developmental disorder characterized by difficulties in social interaction, verbal and nonverbal communication

82. She visited the local \_\_\_\_\_ to seek treatment for her persistent headache.

*n.* a medical doctor who practices medicine

83. The flashing lights at the concert triggered her \_\_\_\_\_ and caused a seizure.

*n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

84. The scientist \_\_\_\_\_ the frog to study its internal organs.

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

85. I heard the \_\_\_\_\_ of his boots in the hallway.

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

86. A \_\_\_\_\_ of grapes hung from the vine.

*n.* a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 79. fused, 80. engineer, 81. autism, 82. physician, 83. epilepsy, 84. dissected, 85. clump, 86. cluster

87. The politician's speech was \_\_\_\_\_ jumbo and needed to be clearer to the audience.

*n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask

88. Actuators convert \_\_\_\_\_ pulses into motion.

*adj.* relating to electricity

89. \_\_\_\_\_ weight is the sum of all the atoms.

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

90. My father's death \_\_\_\_\_ my life completely.

*v.* to change in outward structure or looks;

91. His bitter experiences \_\_\_\_\_ his moral principles.

*v.* to be the support, basis, hidden cause of something; to be located under or below

92. The diamond \_\_\_\_\_ in the sunlight.

*v.* to emit or reflect bright flashes of light, especially with animation and joy

93. The brothers \_\_\_\_\_ each other in the hobby.

*v.* to look like or be similar to someone or something

94. Her \_\_\_\_\_ approach to teaching has been a hit with the students.

*adj.* not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards

ANSWERS: 87. mumbo, 88. electrical, 89. Molecular, 90. transformed, 91. underlie, 92. sparkled, 93. resemble, 94. unconventional

95. They explored every \_\_\_\_\_ they could think of.  
*n.* a wide road in a town or city, especially with trees or tall buildings on both sides; a line of approach
96. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.  
*n.* a workplace for doing scientific research or teaching science; a lab
97. The government tried to \_\_\_\_\_ the commercialization of this development.  
*v.* to make something faster or earlier; to cause to develop or progress more quickly
98. The election was a \_\_\_\_\_ success for the Whigs.  
*adj.* worthy of attention because unusual or special
99. The invention of the smartphone \_\_\_\_\_ the way we communicate with each other.  
*v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
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. She tried to \_\_\_\_\_ her cat out of the tree with a can of tuna.  
*v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
102. The patient was diagnosed with a rare genetic \_\_\_\_\_.  
*n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder

ANSWERS: 95. avenue, 96. laboratory, 97. accelerate, 98. remarkable, 99. revolutionized, 100. pathway, 101. coax, 102. syndrome

103. The incident attracted \_\_\_\_\_ media coverage throughout the world.

*adj.* covering a large area; having a wide range

104. This exam requires excellent \_\_\_\_\_ to pass.

*n.* the ability to focus all your time and energy on one thing without thinking about anything else.

105. 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

106. The museum houses a \_\_\_\_\_ collection of Celtic artifacts.

*adj.* extremely interesting

107. He \_\_\_\_\_ the article in his own words to avoid being accused of plagiarism.

*v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning

108. The plant has a stunning \_\_\_\_\_ blossom.

*adj.* of a color intermediate between red and blue

109. The \_\_\_\_\_ of the tree had fallen and blocked the road.

*n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

110. The development of \_\_\_\_\_ has revolutionized the study of neurological disorders.

*n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development

ANSWERS: 103. extensive, 104. concentration, 105. individual, 106. fascinating, 107. paraphrased, 108. purple, 109. branch, 110. minibrains

111. The \_\_\_\_\_ pressure to conform is strong in this community.

*adj.* relating to society or social relationships

112. The president must have the highest \_\_\_\_\_ standards.

*adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these

113. The patient experienced a \_\_\_\_\_ hemorrhage and required surgery.

*adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical

114. I need to buy a \_\_\_\_\_ bag of dog food for my large-breed puppy.

*n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

115. In junior high school, we had to dissect a frog in \_\_\_\_\_ class.

*n.* the scientific study of life and the natural processes of living things

116. \_\_\_\_\_ elections were held in several European countries.

*adj.* belonging to or used by a group rather than individuals; for common use

117. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.

*v.* to go or move forward; to develop in a positive way

118. The \_\_\_\_\_ amount of money raised for the charity was over a million dollars.

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

ANSWERS: 111. societal, 112. ethical, 113. cerebral, 114. jumbo-sized, 115. biology, 116. Communal, 117. advance, 118. aggregate



119. They \_\_\_\_\_ fun at each other's jokes, laughing and teasing.

*v.* to push or prod with a sharp object or the finger

120. The field of \_\_\_\_\_ is constantly evolving, with new treatments and approaches being developed all the time.

*n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness

121. 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

122. This device displayed the speech \_\_\_\_\_ spectrographically.

*n.* an ordered array of colors into which a light beam can be split

123. He worked at the \_\_\_\_\_ of behavioral economics.

*n.* a border that separates two countries, or the area near this line

124. There was a disturbance of \_\_\_\_\_ function.

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

125. The \_\_\_\_\_ patient was experiencing severe auditory hallucinations.

*n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

126. This facility has the largest astronomical \_\_\_\_\_ in the country.

*n.* a device like a tube in shape containing lenses used to magnify and observe distant objects

ANSWERS: 119. poked, 120. psychiatry, 121. axons, 122. spectrum, 123. frontier, 124. neural, 125. schizophrenia, 126. telescope

127. The firm employs several \_\_\_\_\_ to develop a recommendation engine.

*n.* a person who studies or is an expert in statistics

128. The train has to \_\_\_\_\_ rigorous safety checks.

*v.* to go through something unpleasant or that involves a change

129. The phone rang at the most \_\_\_\_\_ time.

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

130. Yoga is known to have \_\_\_\_\_ benefits for the mind and body.

*adj.* relating to or involved in the treatment of illness or injury

131. Sharks have highly developed \_\_\_\_\_ systems and are extremely sensitive creatures.

*adj.* of or relating to the physical senses

132. The European Central Bank is Europe's \_\_\_\_\_ of the Federal Reserve.

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

133. Bananas have their \_\_\_\_\_ taste and odor.

*n.* a typical feature or quality that can identify, tell apart, or describe something or somebody

134. The development of \_\_\_\_\_ has opened up new avenues for research into the early stages of fetal development

*n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

ANSWERS: 127. statisticians, 128. undergo, 129. opportune, 130. therapeutic, 131. sensory, 132. equivalent, 133. characteristic, 134. organoids

135. Well-stretched muscles are less \_\_\_\_\_ to injury.  
*adj.* easily influenced, harmed, or affected by something
136. He \_\_\_\_\_ the computer's operating system to remove the safeguard.  
*v.* to modify or recreate a program
137. These articles cite five \_\_\_\_\_ of climate change.  
*n.* a particular example or single occurrence of something
138. The majority of consumers \_\_\_\_\_ this brand with quality.  
*v.* to mentally connect someone or something with someone or something else
139. 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
140. Her visit will \_\_\_\_\_ from Monday to Friday.  
*v.* to broaden in scope, range, or area
141. 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
142. 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
143. 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: 135. susceptible, 136. reprogrammed, 137. instances, 138. associate, 139. stem, 140. extend, 141. disorder, 142. neuron, 143. circuit

144. The \_\_\_\_\_ of the economy has led to job losses.

*n.* the act or process of becoming smaller or shorter in size, volume, or amount

145. Overall \_\_\_\_\_ are approximately 400x200mm.

*n.* a measurable extent of a particular kind, such as width, height, or length

146. The \_\_\_\_\_ mountains dominate the landscape.

*n.* a feeling of respect and wonder inspired by someone or something greatly admired

147. The director gave the actor a \_\_\_\_ to begin the scene.

*n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

148. She's a \_\_\_\_\_ pet owner who ensures her dog gets enough exercise and a healthy diet.

*adj.* answerable or accountable for something within one's power, control, or management

149. The \_\_\_\_\_ cells were found to be highly malignant under the microscope.

*n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way

ANSWERS: 144. contraction, 145. dimensions, 146. awe-inspiring, 147. cue, 148. responsible, 149. assembloid