

# Englist.me



## Vocabulary Builder Reference from...

Li-Huei Tsai: Could we treat Alzheimer's with light and sound? | TED Talk

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### All Words

#### IMPORTANT

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## Session 1: Word List

### tremendous

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

*synonym*: enormous, giant, immense

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

We had a **tremendous** time yesterday.

### brainwave

*n.* a sudden idea or inspiration; a moment of great insight or creativity

*synonym*: inspiration, brainstorm, revelation

(1) **brainwave** idea, (2) sudden **brainwave**

The engineer had a **brainwave** and redesigned the product to be more efficient.

### neuroscience

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

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

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

### 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**.

## generate

*v.* to produce or create something; to make offspring by reproduction

*synonym*: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month  
The economic stimulation program would **generate** a lot of new jobs.

## pace

*n.* the speed at which someone or something moves, or the rate at which something happens or changes

*synonym*: gait, rate, speed

(1) at your own **pace**, (2) the runner's **pace**  
The economy is growing at a supercharged **pace**.

## frequency

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

*synonym*: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**  
The oscillator hunts for the correct **frequency**.

## transmit

*v.* to send or forward an electronic signal; to pass something from one person or thing to another

*synonym*: convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information  
Parents often **transmit** their characteristics to their children.

## coordinate

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

*synonym*: organize, harmonize, ordinate

(1) **coordinate** a special project, (2) a **coordinate** clause  
We want to **coordinate** a schedule for the investigation.

## 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.

## orchestra

*n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion

*synonym* : ensemble, symphony, band

(1) full **orchestra**, (2) **orchestra** conductor

The accomplished **orchestra** will give two more performances this week.

## conductor

*n.* someone who leads the performance of musicians or a piece of music; (in physics) an object, substance, or material that readily allows the flow of electricity, heat, etc.

*synonym* : director, manager

(1) **conductor** directing a symphony, (2) oxide **conductor**  
Diamonds are employed as thermal **conductors** as well.

## baton

*n.* a thin stick or rod used as a conductor's wand, a symbol of authority, or a tool for specific sports or activities; a short, straight, light stick that is passed from runner to runner in a relay race

*synonym* : staff, stick, wand

(1) conducting **baton**, (2) twirl the **baton**

The police officer used his **baton** to disperse the crowd.

## synchronize

*v.* to happen or cause to happen at the same time or rate

*synonym* : coordinate, accompany, harmonize

(1) **synchronize** movements, (2) **synchronize** our watches  
The ball speed will increase when the lower body movements are perfectly **synchronized**.

## gamma

*n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves

*synonym* : ray, radiation, emission

(1) **gamma** radiation, (2) **gamma** particles

**Gamma** rays are a type of high-energy radiation that can be harmful to living organisms.

## process

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

*synonym* : procedure, method, system

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

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

## contribute

*v.* to give something, especially money or goods, to provide or achieve something together with other people

*synonym* : donate, devote, commit

(1) **contribute** a large sum of money to the fund,

(2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

## disease

*n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

*synonym* : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

## 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**.

## hertz

*n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

*synonym* : frequency, cycles per second

(1) audio **hertz**, (2) tera- **hertz** radiation

The human ear can detect sounds with frequencies ranging from 20 to 20,000 **hertz**.

## boost

*v.* to improve, raise, or increase something

*synonym* : raise, advance, promote

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

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

## progression

*n.* the act or process of changing to the next stage or phase or moving forward

*synonym* : advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

## develop

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

*synonym* : evolve, progress, advance

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

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

## association

*n.* a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship

*synonym* : affiliation, collaboration, society

(1) word **associations**, (2) a scholarship **association**

His membership in the **association** provided him with numerous benefits.

## estimate

v. to guess or calculate the cost, size, value, etc. of something

*synonym*: calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh three pounds

We **estimated** the season's total trade deficit at \$50 billion.

## decline

v. to become gradually smaller, fewer, worse, etc.; to refuse to accept

*synonym*: descend, drop, deny

(1) **decline** a job offer, (2) **decline** in quality

As people age, their digestive capacity also gradually **declines**.

## dementia

n. a severe decline in cognitive function, especially memory, as a result of disease or injury

*synonym*: cognitive decline, memory loss, Alzheimer's disease

(1) **dementia** patients, (2) probably have **dementia**

The study found that regular exercise can help to prevent the onset of **dementia** in older age.

## unpaid

adj. not yet paid; without payment

*synonym*: overdue, delinquent, outstanding

(1) **unpaid** account, (2) **unpaid** leave

Some employees claim they were simply **unpaid**.

## colleague

n. one of a group of a coworker, especially in a profession or a business

*synonym*: coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

## entrain

v. to synchronize, or bring into a line, with a particular process or rhythm; to board a train or other means of transportation

*synonym*: board, embark, load

(1) **entrain** at the station, (2) **entrain** the heart rate

The rhythm of the music made me want to **entrain** my movements with the beats.

## stimulate

v. to encourage something to develop or become more active; to stir the feelings or emotions

*synonym*: excite, provoke, arouse

(1) **stimulate** the economy, (2) **stimulate** the nervous system

The book **stimulated** my imagination.

## blink

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

*synonym*: twinkle, flash, flicker

(1) **blink** his eyes, (2) **blink** in astonishment

He **blinked** in the dazzling sunlight.

## flickering

*adj.* shining or flashing in an unsteady or irregular way; fluctuating or wavering, often with regards to light or flame

*synonym*: shining, flashing, twinkling

(1) **flickering** flames, (2) **flickering** hope

The **flickering** candlelight added a cozy ambiance to the room.

## demonstrate

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

*synonym*: show, illustrate, display

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

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

## buzz

v. to make a continuous, low humming sound such as the one a bee makes; an exciting and active atmosphere

*synonym*: hum, murmur, whisper

(1) the **buzz** of a cicada, (2) **buzz** marketing

I heard the **buzz** of conversation from the next room.

## discotheque

*n.* a nightclub or restaurant where recorded music is played, and people dance

*synonym*: nightclub, dance club, disco

(1) **discotheque** party, (2) **discotheque** scene

He couldn't wait to hit the **discotheque** and dance the night away.

## prefrontal

*adj.* in or about the foremost part of the frontal lobe of the brain

(1) **prefrontal** bone, (2) **prefrontal** region

Research shows that damage to the **prefrontal** cortex leads to increased aggression.

## 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.

## hippocampus

*n.* a major component of the brain of humans and other vertebrates that is part of the limbic system and is vital for memory

(1) involvement of the **hippocampus**, (2) neurons in the **hippocampus**

The **hippocampus** is crucial for learning and memory storage.

## stimulation

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

*synonym*: activation, arousal, excitation

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

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

## flashy

*adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display

*synonym*: gaudy, ostentatious, dazzling



(1) **flashy** cars, (2) **flashy** graphics

I want to buy a reliable car rather than a **flashy** one.

## literally

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

*synonym* : actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

## amaze

*v.* to fill with wonder, surprise, or admiration

*synonym* : astound, surprise, stagger

(1) **amaze** and entertain visitors, (2) **amaze** everyone

The magician's tricks **amazed** the audience.

## profound

*adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

*synonym* : deep, unsounded, far-reaching

(1) a **profound** book, (2) the **profound** depths of the sea

My mother's illness had a **profound** impact on us all.

## widespread

*adj.* existing or happening in various places or among many people

*synonym* : across-the-board, overall, general

(1) **widespread** use, (2) **widespread** fear of nuclear war

In medieval times, death punishment was **widespread** and socially accepted.

## 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.

## exposed

*adj.* having no protection or shield from something, such as bad weather, attack, or criticism

*synonym* : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock  
Tech companies often employ **exposed** ducts and other materials in their office interiors.

## reduction

*n.* a decrease in size, amount, or degree  
*synonym*: diminution, decrease, cutback

(1) **reduction** strategy, (2) a gradual **reduction**  
The **reduction** in carbon emissions has been significant since the implementation of the new policy.

## protein

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

(1) stress **protein**, (2) **protein** synthesis  
The body needs a certain amount of **protein** to build and repair tissues.

## buildup

*n.* the accumulation or increase of something over time  
*synonym*: accumulation, increase, growth

(1) lactic acid **buildup**, (2) huge military **buildup**  
The **buildup** of stress over time can lead to health problems.

## amyloid

*n.* a type of protein that can accumulate abnormally in various tissues and organs in the body and is linked to various diseases, including Alzheimer's disease

*synonym*: protein deposit, plaque buildup

(1) **amyloid** beta, (2) **amyloid** accumulation  
Alzheimer's disease is characterized by the buildup of **amyloid** plaques in the brain.

## plaque

*n.* a flat, often rectangular, piece of metal, wood, or other material, inscribed or carved with commemorative text or designs and used as a decoration or award; a soft, sticky film of bacteria that coats teeth and can cause tooth decay

*synonym*: tablet, plate, medal

(1) arterial **plaque**, (2) commemorative **plaque**

The dentist removed the **plaque** from my teeth during my cleaning appointment.

**tau** *n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2

(1) **tau** particle, (2) the symbol of **tau**

The **tau** protein has been found to play a role in the development of Alzheimer's disease and other neurological disorders.

**tangle** *n.* a confused mass of something twisted together  
*synonym*: knot, snarl, entanglement

(1) in a **tangle**, (2) **tangle** wires

The cords behind my computer were a **tangled** mess.

**hallmark** *n.* a distinctive characteristic or attribute of a person or thing

*synonym*: symbol, authentication, indication

(1) the **hallmark** of a good scientist, (2) the **hallmark** of modern life

A clear and simple expression is the **hallmark** of good writing.

**preserve** *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed

*synonym*: conserve, care for, maintain

(1) **preserve** my strength, (2) **preserve** a country's heritage

They worked hard to **preserve** the nature of their native lands.

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

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

Animals transmit nerve impulses through **synapses**.

## bind

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

*synonym*: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle  
The company's rules **bind** the employee's working hours.

## 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**.

## survive

*v.* to live or exist despite a dangerous event or period

*synonym*: endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash  
These birds can only **survive** in temperate climates.

## decay

*n.* the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi;  
(*v.*) to rot or decompose through natural causes

*synonym*: corrosion, decomposition, deterioration

(1) radioactive **decay**, (2) prevent tooth **decay**  
The dead body was in an advanced state of **decay**.

## naturally

*adv.* as might be expected; by natural manners

*synonym*: by nature, inherently, intrinsically

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

## ventricle

*n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

*synonym*: chamber, pumping heart muscle

(1) left **ventricle**, (2) **ventricle** in the brain

The heart's **ventricles** are responsible for pumping blood out to the body.

### untreated

*adj.* not given medical care or treatment; not subjected to chemical or physical treatment

*synonym*: raw, unprocessed, coarse

(1) an **untreated** disease, (2) dispose of **untreated** formalin solution

Heat stroke is the result of **untreated** heat exhaustion.

### consistent

*adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.

*synonym*: coherent, constant, compatible

(1) do on a **consistent** basis, (2) get **consistent** results

You are not **consistent** in your behavior.

### observation

*n.* the act or activity of carefully examining or monitoring something or someone

*synonym*: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

### immune

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

*synonym*: resistant, unsusceptible, unaffected

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

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

### microglia

*n.* a type of cell in the central nervous system that acts as part of the immune system, defending against invading pathogens and supporting healthy brain function

*synonym*: brain cell, neuron, glial cell

(1) **microglia** cells, (2) **microglia** activation

Alzheimer's disease is associated with abnormal activation of **microglia**, contributing to brain inflammation and neuronal damage.

## suppose

*v.* to think that something is likely to be actual or possible  
*synonym*: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

## maintain

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

*synonym*: preserve, uphold, sustain

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

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

## vessel

*n.* a ship or large boat

*synonym*: boat, ship, craft

(1) blood **vessels**, (2) naval **vessels**

The **vessel** arrived in port the following day.

## widen

*v.* to become or make something broader, wider, more extensive

*synonym*: broaden, enlarge, extend

(1) **widen** in excitement, (2) **widen** a narrowed heart valve

He **widened** his investigation into a medical clinic.

## diameter

*n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference

*synonym*: diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

## 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.

## improvisation

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

*synonym*: spontaneity, ad-lib, extemporization

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

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

## circulation

*n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold

*synonym*: flow, movement, dissemination

(1) lymphatic **circulation**, (2) **circulation** of money

The **circulation** of the magazine has been steadily declining.

## flush

*v.* to become red on your face, especially because you are embarrassed, angry, or hot; to rinse, clean, or empty something, especially a toilet, by causing large quantities of water to flow

*synonym*: redden, burn, suffuse

(1) the blood **flush** into my face, (2) **flush** the toilet

The girl **flushed** when a young man whistled as she walked by.

## delivery

*n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth

*synonym*: sending, transporting, bringing

(1) an easy **delivery**, (2) special **delivery**

The **delivery** truck arrived with the packages.

## device

*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

*synonym*: gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

## volunteer

*n.* a person who performs or offers to perform a job or service without being paid for or forced to do

*synonym*: unpaid worker, draftee, enlistee

(1) seek **volunteers**, (2) my **volunteer** work

The teachers make full use of **volunteer** assistance.

## poster

*n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it

*synonym*: banner, billboard, sign

(1) eye-catching **posters**, (2) a wanted **poster**

We noticed a **poster** advertising a bargain.

## underneath

*adv.* under or below something else

*synonym*: below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

## 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.

## tablet

*n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

*synonym*: notepad, pill, medication

(1) a multivitamin **tablet**, (2) **tablet** keyboard

The new **tablet** device has a faster processor and better graphics than its predecessor.



## emerge

*v.* to move out of or away from something and become visible

*synonym* : arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

## pilot

*n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

*synonym* : aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

## clinical

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

*synonym* : dispassionate, analytic, scientific

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

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

## technological

*adj.* based on scientific and industrial progress

*synonym* : specialized, technical

(1) **technological** advancement, (2) **technological** policy

**Technological** advances have disrupted many industries.

## encouraging

*adj.* giving hope, confidence, or support; inspiring

*synonym* : uplifting, inspiring, optimistic

(1) **encouraging** approval, (2) **encouraging** sign

The test results were **encouraging** and showed improvement.

## preservation

*n.* the act of keeping something in its original state or of preventing it from being damaged

*synonym* : conserving, protection, conservancy

(1) wildlife **preservation**, (2) the **preservation** of food

The museum had kept the paintings in remarkable **preservation**.

## volume

*n.* the amount of space occupied by an object or substance; the magnitude of sound

*synonym*: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

## cognitive

*adj.* of or relating to mental processes of understanding

*synonym*: perceivable, mind, mental

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

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

## improve

*v.* to make or become better

*synonym*: enhance, ameliorate, enrich

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

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

## cofounder

*n.* one of several people who establishes an organization or starts a business

(1) **cofounder** of the university, (2) late **cofounder**

He is the **cofounder** and chairman of this tech company.

## atrophy

*n.* a decrease in size of a muscle, organ, etc., caused by disease or disuse

*synonym*: disintegration, degeneration, wasting away

(1) weakness with **atrophy**, (2) **atrophy** of the muscles

Daily exercise and adequate sleep are necessary to prevent the progression of **atrophy**.

## function

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

*synonym*: purpose, mapping, job

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

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

## determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

*synonym*: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## participate

*v.* to take part in something

*synonym*: take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

## tolerate

*v.* to allow something to exist or happen, even if it is disliked or opposed

*synonym*: endure, put up with, bear

(1) **tolerate** his disrespectful behavior, (2) **tolerate** ambiguity

I can't **tolerate** spicy food, and it always gives me heartburn

## invasive

*adj.* spreading very quickly, and often aggressively, and difficult to stop

*synonym*: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

## minimal

*adj.* tiny in amount; the least possible

*synonym*: tiniest, essential, minimum

(1) **minimal** effort, (2) **minimal** amount

The process was carried out at **minimal** cost.

## launch

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

*synonym*: start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

## delay

v. to cause something to happen at a later time than originally intended or expected

*synonym*: block, adjourn, detain

(1) **delay** a flight three hours, (2) **delay** the new project

We **delayed** the payment because of an incorrect invoice.

## incidence

n. the frequency or rate at which a particular event or condition occurs within a specific population, group, or area; the occurrence or manifestation of something, especially something harmful or unpleasant

*synonym*: occurrence, frequency, prevalence

(1) **incidence** rate, (2) high **incidence** of disease

The **incidence** of crime has decreased in the neighborhood since the new security measures were put in place.

## prevalence

n. the state or condition of being widespread or common; the extent or frequency of occurrence of a disease or condition in a given population at a specific time

*synonym*: preponderance, currency, frequency

(1) **prevalence** rate, (2) high **prevalence** of a diabetes

The **prevalence** of allergies has increased in recent years.

## integrate

v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

*synonym*: mix, merge, combine

(1) **integrate** into the existing system, (2) **integrate** both businesses

He found that it is difficult to **integrate** socially.

## environment

*n.* the natural world such as air, water, and land in which humans, animals, and plants live

*synonym*: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

## entertainment

*n.* public shows, films, television, or other performances or activities of enjoying people

*synonym*: amusement, recreation, enjoyment

(1) an elegant **entertainment**, (2) hour of **entertainment**

The hotel is famous for its **entertainment**, including the casino.

## 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**.

## causal

*adj.* relating to or indicating a cause or the relationship between causes and effects; resulting from a cause

*synonym*: causative, contributory, connected

(1) **causal** chain, (2) **causal** effect

The study aimed to establish a **causal** relationship between smoking and lung cancer.

## falloff

*n.* a decline or decrease in something, such as quantity or quality; a decrease in the intensity, brightness, or volume of something; (verb) to decrease in quantity, quality, or intensity; to slip or slide from a surface or support

*synonym*: decline, drop, decrease

(1) **falloff** in demand, (2) productivity **falloff**

The **falloff** in sales was attributed to the new competitor in the market.

## obvious

*adj.* easy to see, discover or understand

*synonym*: apparent, conspicuous, evident

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

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

## 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.

## 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.

## compromise

*v.* to settle a problem or disagreement by mutual concession

*synonym*: agree, settle, negotiate

(1) **compromise** the matter, (2) cannot **compromise** anymore

They never **compromised** on development despite the lack of funds.

## allude

*v.* to suggest or make reference to something indirectly

*synonym*: imply, indicate, hint

(1) **allude** to his low origin, (2) **allude** to the planning

He **alluded** to the problem but did not mention it directly.

## impair

*v.* to damage something or make it weaker or worse  
*synonym* : degrade, mar, deface

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

The accident made his vision **impaired**.

## 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.

## pathology

*n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders

*synonym* : medical science, pathophysiology

(1) benign **pathology**, (2) clinical **pathology**

The **pathology** report showed no signs of cancer, giving her family a sense of relief.

## mention

*v.* to speak or write about something or someone briefly  
*synonym* : reference, allude, cite

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

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

## strength

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

*synonym* : resilience, power, muscles

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

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

## pathophysiology

*n.* the study of the changes in normal bodily functions that occur as a result of disease or injury; the study of the functional changes that occur in an organism as a result of disease, injury, or abnormality

*synonym* : medical pathology, disease mechanism, physiological

## disorder

(1) explore the **pathophysiology**, (2) **pathophysiology** of heart disease

The study of **pathophysiology** examines the physiological processes that lead to disease.

## eventually

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

*synonym* : finally, someday, ultimately

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

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

## 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.

## heal

*v.* to make a wound or injury to become well again

*synonym* : recover, bring around, mend

(1) **heal** a broken bone, (2) **heal** the hurt mind

It will take time for her mental scars to **heal**.

## necessarily

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

*synonym* : inevitable, certainly, automatically

(1) not **necessarily** a problem, (2) **necessarily** true

This accident was something that happened **necessarily**.

## argue

*v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

*synonym* : debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for



dinner.

**ray** *n.* a narrow line of light, heat, or another form of energy  
*synonym* : beam, light, glimmer

(1) opaque to X- **rays**, (2) effect of cosmic **rays**

Gamma **rays** penetrate body tissues and cause cell damage.

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

*synonym* : antidote, medicine, treatment

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

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

**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.

**absolutely** *adv.* without restriction or limitation; completely or utterly  
*synonym* : completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

**critic** *n.* someone who expresses opinions about the quality of books, music, etc.

*synonym* : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

**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.

**onset**

*n.* the beginning or early stages of unpleasant something;  
a military attack

*synonym*: beginning, attack, commencement

(1) at the first **onset**, (2) the **onset** of spring

This medicine works best when taken at the **onset** of a cold.

## Session 2: Spelling

- |   |  |
|---|--|
| 1. par_____te in the program                | <i>v.</i> to take part in something  |
| 2. h__l a broken bone                       | <i>v.</i> to make a wound or injury to become well again   |
| 3. tre_____us amount                        | <i>adj.</i> very great in degree or extent or amount or impact; extremely good   |
| 4. ta___t keyboard                          | <i>n.</i> a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine |
| 5. chaotic env_____nt                       | <i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live   |
| 6. sy_____e circuit                         | <i>n.</i> the fact or state of failing to finish an activity and of stopping using, making, or doing it                                      |
| 7. com_____ty theory                        | <i>n.</i> the state or quality of being complicated or intricate and difficult to understand   |
| 8. a particle di_____er                     | <i>n.</i> the length of a straight line passing through the center of a circle and connecting two points on the circumference                |
| 9. tec_____cal advancement                  | <i>adj.</i> based on scientific and industrial progress  |
| 10. a theoretical concept in<br>neu_____nce | <i>n.</i> the scientific study of the function, structure, and disorder of the brain and the nervous system                                  |

ANSWERS: 1. participate, 2. heal, 3. tremendous, 4. tablet, 5. environment, 6. synapse, 7. complexity, 8. diameter, 9. technological, 10. neuroscience

11. vo\_\_\_e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
12. visual co\_\_\_x neuron *n.* the outermost layer of an organ, especially the brain
13. pat\_\_\_\_\_ogy of heart disease *n.* the study of the changes in normal bodily functions that occur as a result of disease or injury; the study of the functional changes that occur in an organism as a result of disease, injury, or abnormality
14. translate li\_\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
15. weakness with at\_\_\_\_\_y *n.* a decrease in size of a muscle, organ, etc., caused by disease or disuse
16. b\_\_d old letters into a bundle *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
17. fu\_\_\_\_\_on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
18. su\_\_\_\_\_e you're right *v.* to think that something is likely to be actual or possible

ANSWERS: 11. volume, 12. cortex, 13. pathophysiology, 14. literally, 15. atrophy, 16. bind, 17. function, 18. suppose

19. nec\_\_\_\_\_ly true *adv.* in an essential manner; in such a way as could not be otherwise
20. class obs\_\_\_\_\_on day *n.* the act or activity of carefully examining or monitoring something or someone
21. dis\_\_\_\_\_ue scene *n.* a nightclub or restaurant where recorded music is played, and people dance
22. tracking de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
23. the imp\_\_\_\_\_on in a crime *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
24. de\_\_\_\_\_ia patients *n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
25. abs\_\_\_\_\_ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
26. hour of ent\_\_\_\_\_ent *n.* public shows, films, television, or other performances or activities of enjoying people
27. ta\_\_\_e wires *n.* a confused mass of something twisted together
28. ge\_\_\_\_\_te more electricity *v.* to produce or create something; to make offspring by reproduction
29. wi\_\_n a narrowed heart valve *v.* to become or make something broader, wider, more extensive
30. 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

ANSWERS: 19. necessarily, 20. observation, 21. discotheque, 22. device, 23. implication, 24. dementia, 25. absolutely, 26. entertainment, 27. tangle, 28. generate, 29. widen, 30. circuit

31. at the first on\_\_t                    *n.* the beginning or early stages of unpleasant something; a military attack
32. or\_\_\_\_ra conductor                *n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
33. pre\_\_\_\_ce rate                    *n.* the state or condition of being widespread or common; the extent or frequency of occurrence of a disease or condition in a given population at a specific time
34. pre\_\_\_\_al bone                    *adj.* in or about the foremost part of the frontal lobe of the brain
35. the ha\_\_\_\_rk of modern life        *n.* a distinctive characteristic or attribute of a person or thing
36. en\_\_\_\_n the heart rate            *v.* to synchronize, or bring into a line, with a particular process or rhythm; to board a train or other means of transportation
37. am\_\_e everyone                    *v.* to fill with wonder, surprise, or admiration
38. arterial pl\_\_\_\_e                    *n.* a flat, often rectangular, piece of metal, wood, or other material, inscribed or carved with commemorative text or designs and used as a decoration or award; a soft, sticky film of bacteria that coats teeth and can cause tooth decay
39. su\_\_\_\_e a blizzard                *v.* to live or exist despite a dangerous event or period
40. the symbol of t\_u                    *n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2

ANSWERS: 31. onset, 32. orchestra, 33. prevalence, 34. prefrontal, 35. hallmark, 36. entrain, 37. amaze, 38. plaque, 39. survive, 40. tau

41. lymphatic cir\_\_\_\_\_on                    *n.*    the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold
42. a coo\_\_\_\_\_te clause                    *v.*    to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree
43. do on a con\_\_\_\_\_nt basis                *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
44. twirl the ba\_\_n                                *n.*    a thin stick or rod used as a conductor's wand, a symbol of authority, or a tool for specific sports or activities; a short, straight, light stick that is passed from runner to runner in a relay race
45. di\_\_\_\_\_er of an oval                    *n.*    the length of a straight line passing through the center of a circle and connecting two points on the circumference
46. bite his tongue li\_\_\_\_\_ly                *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
47. audio he\_\_z                                    *n.*    the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
48. stress pr\_\_\_\_\_n                            *n.*    a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

ANSWERS: 41. circulation, 42. coordinate, 43. consistent, 44. baton, 45. diameter, 46. literally, 47. hertz, 48. protein

49. environmental det\_\_\_\_\_nt      *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
50. high vo\_\_\_e      *n.* the amount of space occupied by an object or substance; the magnitude of sound
51. a ge\_\_\_\_\_c disorder      *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
52. effect of cosmic r\_ys      *n.* a narrow line of light, heat, or another form of energy
53. na\_\_\_\_\_ly arising      *adv.* as might be expected; by natural manners
54. di\_\_\_\_\_e prevention      *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
55. fl\_\_\_y graphics      *adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display
56. his conclusion was ob\_\_\_\_\_s      *adj.* easy to see, discover or understand
57. am\_\_\_\_\_d accumulation      *n.* a type of protein that can accumulate abnormally in various tissues and organs in the body and is linked to various diseases, including Alzheimer's disease
58. a gradual re\_\_\_\_\_on      *n.* a decrease in size, amount, or degree

ANSWERS: 49. determinant, 50. volume, 51. genetic, 52. ray, 53. naturally, 54. disease, 55. flashy, 56. obvious, 57. amyloid, 58. reduction



59. pr\_\_\_\_s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
60. ve\_\_\_\_\_le in the brain *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
61. ob\_\_\_\_s reasons *adj.* easy to see, discover or understand
62. su\_\_\_\_e a plane crash *v.* to live or exist despite a dangerous event or period
63. permanent br\_\_n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
64. at\_\_\_\_y of the muscles *n.* a decrease in size of a muscle, organ, etc., caused by disease or disuse
65. es\_\_\_\_te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
66. mi\_\_\_\_l effort *adj.* tiny in amount; the least possible
67. obs\_\_\_\_\_on instrument *n.* the act or activity of carefully examining or monitoring something or someone
68. im\_\_\_\_e a process *v.* to make or become better
69. the ha\_\_\_\_rk of a good scientist *n.* a distinctive characteristic or attribute of a person or thing

ANSWERS: 59. process, 60. ventricle, 61. obvious, 62. survive, 63. brain, 64. atrophy, 65. estimate, 66. minimal, 67. observation, 68. improve, 69. hallmark

70. ca\_\_\_l chain *adj.* relating to or indicating a cause or the relationship between causes and effects; resulting from a cause
71. ma\_\_\_\_\_in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
72. in\_\_\_\_\_ce rate *n.* the frequency or rate at which a particular event or condition occurs within a specific population, group, or area; the occurrence or manifestation of something, especially something harmful or unpleasant
73. con\_\_\_\_\_te a large sum of money to the fund *v.* to give something, especially money or goods, to provide or achieve something together with other people
74. de\_\_\_\_\_p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
75. the branch of neu\_\_\_\_\_nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
76. coo\_\_\_\_\_te a special project *v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree
77. im\_\_\_r insulin sensitivity *v.* to damage something or make it weaker or worse

ANSWERS: 70. causal, 71. maintain, 72. incidence, 73. contribute, 74. develop, 75. neuroscience, 76. coordinate, 77. impair

78. en\_\_\_\_n at the station      *v.* to synchronize, or bring into a line, with a particular process or rhythm; to board a train or other means of transportation
79. probably have de\_\_\_\_ia      *n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
80. cognitive com\_\_\_\_ty      *n.* the state or quality of being complicated or intricate and difficult to understand
81. fa\_\_\_\_f in demand      *n.* a decline or decrease in something, such as quantity or quality; a decrease in the intensity, brightness, or volume of something; (verb) to decrease in quantity, quality, or intensity; to slip or slide from a surface or support
82. full or\_\_\_\_ra      *n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
83. ma\_\_\_\_in order      *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
84. enc\_\_\_\_ng approval      *adj.* giving hope, confidence, or support; inspiring
85. an ex\_\_\_\_d rock      *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
86. env\_\_\_\_nt affairs      *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 78. entrain, 79. dementia, 80. complexity, 81. falloff, 82. orchestra, 83. maintain, 84. encouraging, 85. exposed, 86. environment

87. b\_\_z marketing *v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere
88. naval ve\_\_\_ls *n.* a ship or large boat
89. bo\_\_t the economy *v.* to improve, raise, or increase something
90. high in\_\_\_\_\_ce of disease *n.* the frequency or rate at which a particular event or condition occurs within a specific population, group, or area; the occurrence or manifestation of something, especially something harmful or unpleasant
91. ge\_\_\_\_\_te \$100 a month *v.* to produce or create something; to make offspring by reproduction
92. de\_\_\_\_\_e a job offer *v.* to become gradually smaller, fewer, worse, etc.; to refuse to accept
93. the imp\_\_\_\_\_on of a word *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
94. a child with se\_\_\_\_\_y issues *adj.* of or relating to the physical senses
95. art cr\_\_\_\_c *n.* someone who expresses opinions about the quality of books, music, etc.
96. syn\_\_\_\_\_ze our watches *v.* to happen or cause to happen at the same time or rate
97. improve co\_\_\_\_\_ve function *adj.* of or relating to mental processes of understanding
98. pre\_\_\_\_\_al region *adj.* in or about the foremost part of the frontal lobe of the brain

ANSWERS: 87. buzz, 88. vessel, 89. boost, 90. incidence, 91. generate, 92. decline, 93. implication, 94. sensory, 95. critic, 96. synchronize, 97. cognitive, 98. prefrontal

99. benign pa\_\_\_\_\_gy                      *n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders
100. for in\_\_\_\_\_ce                      *n.* a particular example or single occurrence of something
101. dis\_\_\_\_\_ue party                      *n.* a nightclub or restaurant where recorded music is played, and people dance
102. mi\_\_\_\_\_ia activation                      *n.* a type of cell in the central nervous system that acts as part of the immune system, defending against invading pathogens and supporting healthy brain function
103. la\_\_\_\_h a big attack                      *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
104. the b\_\_z of a cicada                      *v.* to make a continuous, low humming sound such as the one a bee makes; an exciting and active atmosphere
105. dispose of un\_\_\_\_\_ed formalin solution                      *adj.* not given medical care or treatment; not subjected to chemical or physical treatment
106. mi\_\_\_\_\_l amount                      *adj.* tiny in amount; the least possible
107. dem\_\_\_\_\_te mastery                      *v.* to display something or give an exhibition to an interested audience

ANSWERS: 99. pathology, 100. instance, 101. discotheque, 102. microglia, 103. launch, 104. buzz, 105. untreated, 106. minimal, 107. demonstrate

108. al\_\_\_e to the planning *v.* to suggest or make reference to something indirectly
109. im\_\_\_e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
110. st\_\_\_\_th of the economy *n.* the quality or state of being physically, or sometimes mentally, strong
111. me\_\_\_\_n name *v.* to speak or write about something or someone briefly
112. special de\_\_\_\_ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
113. a wanted po\_\_\_r *n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
114. de\_\_\_\_p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
115. a scholarship ass\_\_\_\_\_on *n.* a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship
116. in\_\_\_\_\_te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

ANSWERS: 108. allude, 109. immune, 110. strength, 111. mention, 112. delivery, 113. poster, 114. develop, 115. association, 116. integrate

117. huge military bu\_\_\_\_p *n.* the accumulation or increase of something over time
118. to\_\_\_\_te ambiguity *v.* to allow something to exist or happen, even if it is disliked or opposed
119. opaque to X-r\_ys *n.* a narrow line of light, heat, or another form of energy
120. fli\_\_\_\_\_ng flames *adj.* shining or flashing in an unsteady or irregular way; fluctuating or wavering, often with regards to light or flame
121. wi\_\_n in excitement *v.* to become or make something broader, wider, more extensive
122. am\_\_e and entertain visitors *v.* to fill with wonder, surprise, or admiration
123. fr\_\_\_\_\_cy band *n.* an ordered array of colors into which a light beam can be split
124. pr\_\_\_\_\_n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
125. have ge\_\_\_\_\_c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
126. und\_\_\_\_\_th the surface of the water *adv.* under or below something else
127. the on\_\_t of spring *n.* the beginning or early stages of unpleasant something; a military attack
128. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 117. buildup, 118. tolerate, 119. ray, 120. flickering, 121. widen, 122. amaze, 123. frequency, 124. protein, 125. genetic, 126. underneath, 127. onset, 128. opportune

129. at your own p\_\_e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
130. anthropology lab \_\_\_\_\_ry *n.* a workplace for doing scientific research or teaching science; a lab
131. pro \_\_\_\_\_on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
132. notable in \_\_\_\_\_ce *n.* a particular example or single occurrence of something
133. com \_\_\_\_\_on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
134. an ag \_\_\_\_\_te of people *n.* a collection or sum of different things often used to describe a total or combination of items
135. co \_\_\_\_\_or directing a symphony *n.* someone who leads the performance of musicians or a piece of music; (in physics) an object, substance, or material that readily allows the flow of electricity, heat, etc.
136. tr \_\_\_\_\_it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
137. tera-he\_\_z radiation *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
138. cir \_\_\_\_\_on of money *n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold

ANSWERS: 129. pace, 130. laboratory, 131. progression, 132. instance, 133. combination, 134. aggregate, 135. conductor, 136. transmit, 137. hertz, 138. circulation



139. enc\_\_\_\_\_ng sign *adj.* giving hope, confidence, or support; inspiring
140. st\_\_\_\_\_te the economy *v.* to encourage something to develop or become more active; to stir the feelings or emotions
141. to\_\_\_\_\_te his disrespectful behavior *v.* to allow something to exist or happen, even if it is disliked or opposed
142. a se\_\_\_\_\_y organ *adj.* of or relating to the physical senses
143. involvement of the hip\_\_\_\_\_us *n.* a major component of the brain of humans and other vertebrates that is part of the limbic system and is vital for memory
144. ga\_\_a radiation *n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
145. word ass\_\_\_\_\_ons *n.* a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship
146. syn\_\_\_\_\_ze movements *v.* to happen or cause to happen at the same time or rate
147. me\_\_\_\_\_n in a report *v.* to speak or write about something or someone briefly
148. in a ta\_\_\_e *n.* a confused mass of something twisted together
149. st\_\_\_\_\_te the nervous system *v.* to encourage something to develop or become more active; to stir the feelings or emotions

ANSWERS: 139. encouraging, 140. stimulate, 141. tolerate, 142. sensory, 143. hippocampus, 144. gamma, 145. association, 146. synchronize, 147. mention, 148. tangle, 149. stimulate

150. high fr\_\_\_\_\_cy *n.* an ordered array of colors into which a light beam can be split
151. pr\_\_\_\_\_ve my strength *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
152. ar\_\_e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
153. a det\_\_\_\_\_nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
154. get ne\_\_\_\_\_s *adj.* worried and anxious about something; relating to the nerves
155. high pre\_\_\_\_\_ce of a diabetes *n.* the state or condition of being widespread or common; the extent or frequency of occurrence of a disease or condition in a given population at a specific time
156. basic br\_\_n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
157. h\_\_l the hurt mind *v.* to make a wound or injury to become well again
158. radioactive de\_\_y *n.* the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes

ANSWERS: 150. frequency, 151. preserve, 152. argue, 153. determinant, 154. nervous, 155. prevalence, 156. brain, 157. heal, 158. decay

159. wid\_\_\_\_\_ad fear of nuclear war      *adj.* existing or happening in various places or among many people
160. oxide co\_\_\_\_\_or      *n.* someone who leads the performance of musicians or a piece of music; (in physics) an object, substance, or material that readily allows the flow of electricity, heat, etc.
161. ex\_\_\_\_\_d to radiation      *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
162. pr\_\_\_\_\_ve a country's heritage      *v.* to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
163. es\_\_\_\_\_te this chicken to weigh three pounds      *v.* to guess or calculate the cost, size, value, etc. of something
164. lab\_\_\_\_\_ry accident      *n.* a workplace for doing scientific research or teaching science; a lab
165. a test pi\_\_t      *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
166. sti\_\_\_\_\_on of the economy      *n.* the act of arousing interest or activity in something; the action of providing a stimulus
167. the cell of the im\_\_\_e system      *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
168. bo\_\_t flexibility      *v.* to improve, raise, or increase something

ANSWERS: 159. widespread, 160. conductor, 161. exposed, 162. preserve, 163. estimate, 164. laboratory, 165. pilot, 166. stimulation, 167. immune, 168. boost

169. in\_\_\_\_ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
170. co\_\_\_\_\_er of the university *n.* one of several people who establishes an organization or starts a business
171. not nec\_\_\_\_\_ly a problem *adv.* in an essential manner; in such a way as could not be otherwise
172. neurons in the hip\_\_\_\_\_us *n.* a major component of the brain of humans and other vertebrates that is part of the limbic system and is vital for memory
173. lactic acid bu\_\_\_\_p *n.* the accumulation or increase of something over time
174. ar\_\_e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
175. end at a sy\_\_\_\_\_e *n.* the fact or state of failing to finish an activity and of stopping using, making, or doing it
176. com\_\_\_\_\_se the matter *v.* to settle a problem or disagreement by mutual concession
177. co\_\_\_x cells *n.* the outermost layer of an organ, especially the brain
178. mi\_\_\_\_\_ia cells *n.* a type of cell in the central nervous system that acts as part of the immune system, defending against invading pathogens and supporting healthy brain function
179. the pr\_\_\_\_\_nd depths of the sea *adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

ANSWERS: 169. invasive, 170. cofounder, 171. necessarily, 172. hippocampus, 173. buildup, 174. argue, 175. synapse, 176. compromise, 177. cortex, 178. microglia, 179. profound

180. clinical pa\_\_\_\_\_gy      *n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders
181. left ve\_\_\_\_\_le      *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
182. an easy de\_\_\_\_\_ry      *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
183. en\_\_\_\_\_er shortage      *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
184. severe cr\_\_\_\_\_c      *n.* someone who expresses opinions about the quality of books, music, etc.
185. jazz imp\_\_\_\_\_ion      *n.* the act of making something up on the spot or creating or performing something without preparation
186. muscular st\_\_\_\_\_th      *n.* the quality or state of being physically, or sometimes mentally, strong
187. br\_\_\_\_\_ve idea      *n.* a sudden idea or inspiration; a moment of great insight or creativity
188. al\_\_\_\_\_e to his low origin      *v.* to suggest or make reference to something indirectly
189. wildlife pre\_\_\_\_\_ion      *n.* the act of keeping something in its original state or of preventing it from being damaged

ANSWERS: 180. pathology, 181. ventricle, 182. delivery, 183. engineer, 184. critic, 185. improvisation, 186. strength, 187. brainwave, 188. allude, 189. preservation

190. ga\_\_a particles *n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves
191. und\_\_\_\_\_th the laughter *adv.* under or below something else
192. collaborate with co\_\_\_\_\_ues *n.* one of a group of a coworker, especially in a profession or a business
193. eve\_\_\_\_\_ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
194. de\_\_\_\_\_e in quality *v.* to become gradually smaller, fewer, worse, etc.; to refuse to accept
195. di\_\_\_\_\_e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
196. pro\_\_\_\_\_on of disease *n.* the act or process of changing to the next stage or phase or moving forward
197. explore the pat\_\_\_\_\_ogy *n.* the study of the changes in normal bodily functions that occur as a result of disease or injury; the study of the functional changes that occur in an organism as a result of disease, injury, or abnormality
198. con\_\_\_\_\_te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
199. abs\_\_\_\_\_ly against *adv.* without restriction or limitation; completely or utterly
200. na\_\_\_\_\_ly regenerated forest *adv.* as might be expected; by natural manners

ANSWERS: 190. gamma, 191. underneath, 192. colleague, 193. eventually, 194. decline, 195. disease, 196. progression, 197. pathophysiology, 198. contribute, 199. absolutely, 200. naturally

201. 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.
202. a multivitamin ta____t	<i>n.</i> a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine
203. cl_____al surgery	<i>adj.</i> of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
204. imp_____ion on stage	<i>n.</i> the act of making something up on the spot or creating or performing something without preparation
205. an un_____ed disease	<i>adj.</i> not given medical care or treatment; not subjected to chemical or physical treatment
206. seek vo_____ers	<i>n.</i> a person who performs or offers to perform a job or service without being paid for or forced to do
207. my vo_____er work	<i>n.</i> a person who performs or offers to perform a job or service without being paid for or forced to do
208. bl__k in astonishment	<i>v.</i> to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
209. re_____on strategy	<i>n.</i> a decrease in size, amount, or degree
210. la____h a spaceship into orbit	<i>v.</i> to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 201. treatment, 202. tablet, 203. clinical, 204. improvisation, 205. untreated, 206. volunteer, 207. volunteer, 208. blink, 209. reduction, 210. launch

211. par_____te fully in conversation	<i>v.</i>	to take part in something
212. a civil en_____er	<i>n.</i>	a person whose job is designing, building, or maintaining something such as machines, structures, or software
213. de__y the new project	<i>v.</i>	to cause something to happen at a later time than originally intended or expected
214. un____d leave	<i>adj.</i>	not yet paid; without payment
215. prevent tooth de__y	<i>n.</i>	the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes
216. cannot com_____se anymore	<i>v.</i>	to settle a problem or disagreement by mutual concession
217. pi__t production	<i>n.</i>	a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
218. b__d the man's hands	<i>v.</i>	to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
219. a pr_____nd book	<i>adj.</i>	extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension
220. decision-making pr_____s	<i>n.</i>	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 211. participate, 212. engineer, 213. delay, 214. unpaid, 215. decay, 216. compromise, 217. pilot, 218. bind, 219. profound, 220. process



221. an elegant ent\_\_\_\_\_ent      *n.* public shows, films, television, or other performances or activities of enjoying people
222. blood ve\_\_\_ls      *n.* a ship or large boat
223. fl\_\_h the toilet      *v.* to become red on your face, especially because you are embarrassed, angry, or hot; to rinse, clean, or empty something, especially a toilet, by causing large quantities of water to flow
224. get con\_\_\_\_\_nt results      *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
225. in\_\_\_\_\_ve breast cancer      *adj.* spreading very quickly, and often aggressively, and difficult to stop
226. electronic de\_\_\_e      *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
227. 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
228. em\_\_\_e from poverty      *v.* to move out of or away from something and become visible
229. dem\_\_\_\_\_te a difference      *v.* to display something or give an exhibition to an interested audience
230. tre\_\_\_\_\_us popularity      *adj.* very great in degree or extent or amount or impact; extremely good
231. sti\_\_\_\_\_on of the senses      *n.* the act of arousing interest or activity in something; the action of providing a stimulus

ANSWERS: 221. entertainment, 222. vessel, 223. flush, 224. consistent, 225. invasive, 226. device, 227. circuit, 228. emerge, 229. demonstrate, 230. tremendous, 231. stimulation

232. de\_\_y a flight three hours *v.* to cause something to happen at a later time than originally intended or expected
233. research on co\_\_\_\_\_ve psychology *adj.* of or relating to mental processes of understanding
234. eye-catching po\_\_\_\_rs *n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
235. tec\_\_\_\_\_cal policy *adj.* based on scientific and industrial progress
236. ca\_\_\_l effect *adj.* relating to or indicating a cause or the relationship between causes and effects; resulting from a cause
237. development of the ne\_\_\_\_s system *adj.* worried and anxious about something; relating to the nerves
238. the blood fl\_\_h into my face *v.* to become red on your face, especially because you are embarrassed, angry, or hot; to rinse, clean, or empty something, especially a toilet, by causing large quantities of water to flow
239. im\_\_\_\_\_e the test score *v.* to make or become better
240. 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.
241. productivity fa\_\_\_\_\_f *n.* a decline or decrease in something, such as quantity or quality; a decrease in the intensity, brightness, or volume of something; (verb) to decrease in quantity, quality, or intensity; to slip or slide from a surface or support

ANSWERS: 232. delay, 233. cognitive, 234. poster, 235. technological, 236. causal, 237. nervous, 238. flush, 239. improve, 240. treatment, 241. falloff

242. su\_\_\_\_e beforehand *v.* to think that something is likely to be actual or possible
243. fli\_\_\_\_\_ng hope *adj.* shining or flashing in an unsteady or irregular way; fluctuating or wavering, often with regards to light or flame
244. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
245. sudden br\_\_\_\_\_ve *n.* a sudden idea or inspiration; a moment of great insight or creativity
246. un\_\_\_\_d account *adj.* not yet paid; without payment
247. th\_\_\_\_\_y for a patient *n.* the act of caring for someone through medication, remedial training, etc.
248. late co\_\_\_\_\_er *n.* one of several people who establishes an organization or starts a business
249. commemorative pl\_\_\_\_e *n.* a flat, often rectangular, piece of metal, wood, or other material, inscribed or carved with commemorative text or designs and used as a decoration or award; a soft, sticky film of bacteria that coats teeth and can cause tooth decay
250. tr\_\_\_\_\_it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
251. the pre\_\_\_\_\_ion of food *n.* the act of keeping something in its original state or of preventing it from being damaged
252. conducting ba\_\_n *n.* a thin stick or rod used as a conductor's wand, a symbol of authority, or a tool for specific sports or activities; a short, straight, light stick that is passed from runner to runner in a relay race

ANSWERS: 242. suppose, 243. flickering, 244. opportune, 245. brainwave, 246. unpaid, 247. therapy, 248. cofounder, 249. plaque, 250. transmit, 251. preservation, 252. baton

253. em\_\_\_e as a butterfly *v.* to move out of or away from something and become visible
254. the runner's p\_\_e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
255. eve\_\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
256. im\_\_\_r my health *v.* to damage something or make it weaker or worse
257. wid\_\_\_\_\_ad use *adj.* existing or happening in various places or among many people
258. bl\_\_k his eyes *v.* to shut and open the eyes quickly; to gleam or glow in a regular or intermittent way
259. am\_\_\_\_\_d beta *n.* a type of protein that can accumulate abnormally in various tissues and organs in the body and is linked to various diseases, including Alzheimer's disease
260. former co\_\_\_\_\_ue *n.* one of a group of a coworker, especially in a profession or a business
261. participate in cl\_\_\_\_\_al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
262. data ag\_\_\_\_\_te *n.* a collection or sum of different things often used to describe a total or combination of items
263. in\_\_\_\_\_te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

ANSWERS: 253. emerge, 254. pace, 255. eventually, 256. impair, 257. widespread, 258. blink, 259. amyloid, 260. colleague, 261. clinical, 262. aggregate, 263. integrate

264. t\_u particle
- n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2
265. field of gene th\_\_\_\_y
- n.* the act of caring for someone through medication, remedial training, etc.
266. fl\_\_\_\_y cars
- adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display
267. immune fu\_\_\_\_on
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
268. genic com\_\_\_\_\_ons
- n.* a collection of things that have been combined; an assemblage of separate parts or qualities

ANSWERS: 264. tau, 265. therapy, 266. flashy, 267. function, 268. combination

## Session 3: Fill in the Blanks

1. The human ear can detect sounds with frequencies ranging from 20 to 20,000 \_\_\_\_\_.
  - n. the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
2. The study found that regular exercise can help to prevent the onset of \_\_\_\_\_ in older age.
  - n. a severe decline in cognitive function, especially memory, as a result of disease or injury
3. This accident was something that happened \_\_\_\_\_.
  - adv. in an essential manner; in such a way as could not be otherwise
4. What do you \_\_\_\_\_ the culprit's motive was?
  - v. to think that something is likely to be actual or possible
5. His membership in the \_\_\_\_\_ provided him with numerous benefits.
  - n. a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship
6. They worked hard to \_\_\_\_\_ the nature of their native lands.
  - v. to keep or maintain a particular quality, feature, etc., especially to prevent it from decaying, being damaged, or being destroyed
7. The couple began to \_\_\_\_\_ over which restaurant to go to for dinner.
  - v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 1. hertz, 2. dementia, 3. necessarily, 4. suppose, 5. association, 6. preserve, 7. argue

8. The economy is growing at a supercharged \_\_\_\_\_.
- n.* the speed at which someone or something moves, or the rate at which something happens or changes
9. The ball speed will increase when the lower body movements are perfectly \_\_\_\_\_.
- v.* to happen or cause to happen at the same time or rate
10. His poem has a very significant \_\_\_\_\_.
- n.* something that is inferred or indirectly stated; the act or fact of being involved in something
11. These articles cite five \_\_\_\_\_ of climate change.
- n.* a particular example or single occurrence of something
12. Every human is responsible for taking care of the Earth's \_\_\_\_\_.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
13. He was \_\_\_\_\_ gifted.
- adv.* as might be expected; by natural manners
14. A clear and simple expression is the \_\_\_\_\_ of good writing.
- n.* a distinctive characteristic or attribute of a person or thing
15. I underwent aversion \_\_\_\_\_ for my addiction to alcohol.
- n.* the act of caring for someone through medication, remedial training, etc.
16. 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: 8. pace, 9. synchronized, 10. implication, 11. instances, 12. environment, 13. naturally, 14. hallmark, 15. therapy, 16. aggregate

17. The test results were \_\_\_\_\_ and showed improvement.

*adj.* giving hope, confidence, or support; inspiring

18. The \_\_\_\_\_ of certain chemicals activates the brain's reward system.

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

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

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

20. The \_\_\_\_\_ in sales was attributed to the new competitor in the market.

*n.* a decline or decrease in something, such as quantity or quality; a decrease in the intensity, brightness, or volume of something; (verb) to decrease in quantity, quality, or intensity; to slip or slide from a surface or support

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

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

22. The \_\_\_\_\_ in carbon emissions has been significant since the implementation of the new policy.

*n.* a decrease in size, amount, or degree

23. These birds can only \_\_\_\_\_ in temperate climates.

*v.* to live or exist despite a dangerous event or period

24. He couldn't wait to hit the \_\_\_\_\_ and dance the night away.

*n.* a nightclub or restaurant where recorded music is played, and people dance

ANSWERS: 17. encouraging, 18. stimulation, 19. opportune, 20. falloff, 21. engineer, 22. reduction, 23. survive, 24. discotheque



25. The cords behind my computer were a \_\_\_\_\_ mess.  
*n.* a confused mass of something twisted together
26. The oscillator hunts for the correct \_\_\_\_\_.  
*n.* an ordered array of colors into which a light beam can be split
27. I can't \_\_\_\_\_ spicy food, and it always gives me heartburn  
*v.* to allow something to exist or happen, even if it is disliked or opposed
28. We \_\_\_\_\_ the season's total trade deficit at \$50 billion.  
*v.* to guess or calculate the cost, size, value, etc. of something
29. The body needs a certain amount of \_\_\_\_\_ to build and repair tissues.  
*n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
30. The dentist removed the \_\_\_\_\_ from my teeth during my cleaning appointment.  
*n.* a flat, often rectangular, piece of metal, wood, or other material, inscribed or carved with commemorative text or designs and used as a decoration or award;  
a soft, sticky film of bacteria that coats teeth and can cause tooth decay
31. He created a beautiful piece of music using only \_\_\_\_\_.  
*n.* the act of making something up on the spot or creating or performing something without preparation
32. This container has a \_\_\_\_\_ of 10 cubic meters.  
*n.* the amount of space occupied by an object or substance; the magnitude of sound

ANSWERS: 25. tangled, 26. frequency, 27. tolerate, 28. estimated, 29. protein, 30. plaque, 31. improvisation, 32. volume

33. The \_\_\_\_\_ is crucial for learning and memory storage.
- n.* a major component of the brain of humans and other vertebrates that is part of the limbic system and is vital for memory
34. 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
35. The brain is an incredibly complex organ that controls the body's \_\_\_\_\_.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
36. He found that it is difficult to \_\_\_\_\_ socially.
- v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
37. We noticed a \_\_\_\_\_ advertising a bargain.
- n.* a large sheet or picture that is placed either on a public space to promote or announce something or on a wall to decorate it
38. The company's rules \_\_\_\_\_ the employee's working hours.
- v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
39. The penny fell \_\_\_\_\_ the piano.
- adv.* under or below something else
40. The company has made great strides in its \_\_\_\_\_ toward sustainability.
- n.* the act or process of changing to the next stage or phase or moving forward

ANSWERS: 33. hippocampus, 34. genetic, 35. function, 36. integrate, 37. poster, 38. bind, 39. underneath, 40. progression

41. 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
42. The \_\_\_\_\_ to the safe was a secret.
- n.* a collection of things that have been combined; an assemblage of separate parts or qualities
43. The cerebral \_\_\_\_\_ consists of six layers.
- n.* the outermost layer of an organ, especially the brain
44. Alzheimer's disease is associated with abnormal activation of \_\_\_\_\_ contributing to brain inflammation and neuronal damage.
- n.* a type of cell in the central nervous system that acts as part of the immune system, defending against invading pathogens and supporting healthy brain function
45. Heat stroke is the result of \_\_\_\_\_ heat exhaustion.
- adj.* not given medical care or treatment; not subjected to chemical or physical treatment
46. The vaccination does not necessarily make you completely \_\_\_\_\_.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
47. We had a \_\_\_\_\_ time yesterday.
- adj.* very great in degree or extent or amount or impact; extremely good
48. The doctor diagnosed him with a rare \_\_\_\_\_ that had no known cure.
- n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 41. circuit, 42. combination, 43. cortex, 44. microglia, 45. untreated, 46. immune, 47. tremendous, 48. disease

49. The \_\_\_\_\_ report showed no signs of cancer, giving her family a sense of relief.
- n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders
50. The museum had kept the paintings in remarkable \_\_\_\_\_.
- n.* the act of keeping something in its original state or of preventing it from being damaged
51. The new service helped \_\_\_\_\_ net income by 10%.
- v.* to improve, raise, or increase something
52. He suffers from \_\_\_\_\_ breakdowns.
- adj.* worried and anxious about something; relating to the nerves
53. I decided to seek counseling on the advice of my \_\_\_\_\_.
- n.* one of a group of a coworker, especially in a profession or a business
54. The \_\_\_\_\_ of the magazine has been steadily declining.
- n.* the movement of blood through the body or of a fluid through a system; the number of copies of a newspaper or magazine that are sold
55. My mother's illness had a \_\_\_\_\_ impact on us all.
- adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension
56. I \_\_\_\_\_ to him that I had seen his sister at the grocery store earlier that day.
- v.* to speak or write about something or someone briefly

ANSWERS: 49. pathology, 50. preservation, 51. boost, 52. nervous, 53. colleague, 54. circulation, 55. profound, 56. mentioned

57. The \_\_\_\_\_ arrived in port the following day.

*n.* a ship or large boat

58. Tech companies often employ \_\_\_\_\_ ducts and other materials in their office interiors.

*adj.* having no protection or shield from something, such as bad weather, attack, or criticism

59. The rhythm of the music made me want to \_\_\_\_\_ my movements with the beats.

*v.* to synchronize, or bring into a line, with a particular process or rhythm; to board a train or other means of transportation

60. He \_\_\_\_\_ in the dazzling sunlight.

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

61. Advocates for legal reform hear less harsh words from their \_\_\_\_\_.

*n.* someone who expresses opinions about the quality of books, music, etc.

62. The \_\_\_\_\_ of crime has decreased in the neighborhood since the new security measures were put in place.

*n.* the frequency or rate at which a particular event or condition occurs within a specific population, group, or area; the occurrence or manifestation of something, especially something harmful or unpleasant

63. The \_\_\_\_\_ for applying for a visa can be lengthy and complicated.

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

ANSWERS: 57. vessel, 58. exposed, 59. entrain, 60. blinked, 61. critics, 62. incidence, 63. process

64. We want to \_\_\_\_\_ ties between our two countries.

*v.* to make or become better

65. The \_\_\_\_\_ disease can spread quickly and potentially cause a global pandemic.

*adj.* spreading very quickly, and often aggressively, and difficult to stop

66. How can you \_\_\_\_\_ that the earth is a sphere?

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

67. Diamonds are employed as thermal \_\_\_\_\_ as well.

*n.* someone who leads the performance of musicians or a piece of music; (in physics) an object, substance, or material that readily allows the flow of electricity, heat, etc.

68. 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

69. I am \_\_\_\_\_ opposed to his idea because of morality.

*adv.* without restriction or limitation; completely or utterly

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

*adj.* of or relating to the physical senses

71. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.

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

72. The process was carried out at \_\_\_\_\_ cost.

*adj.* tiny in amount; the least possible

ANSWERS: 64. improve, 65. invasive, 66. demonstrate, 67. conductors, 68. complexity, 69. absolutely, 70. sensory, 71. laboratory, 72. minimal

73. Daily exercise and adequate sleep are necessary to prevent the progression of \_\_\_\_\_.
- n.* a decrease in size of a muscle, organ, etc., caused by disease or disuse
74. He \_\_\_\_\_ to the problem but did not mention it directly.
- v.* to suggest or make reference to something indirectly
75. Government workers cannot \_\_\_\_\_ to political campaigns.
- v.* to give something, especially money or goods, to provide or achieve something together with other people
76. The engineer had a \_\_\_\_\_ and redesigned the product to be more efficient.
- n.* a sudden idea or inspiration; a moment of great insight or creativity
77. I always carry a backup \_\_\_\_\_ in case my phone runs out of battery.
- n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
78. Research shows that damage to the \_\_\_\_\_ cortex leads to increased aggression.
- adj.* in or about the foremost part of the frontal lobe of the brain
79. It will take time for her mental scars to \_\_\_\_\_.
- v.* to make a wound or injury to become well again
80. Some employees claim they were simply \_\_\_\_\_.
- adj.* not yet paid; without payment
81. Gamma \_\_\_\_\_ penetrate body tissues and cause cell damage.
- n.* a narrow line of light, heat, or another form of energy

ANSWERS: 73. atrophy, 74. alluded, 75. contribute, 76. brainwave, 77. device, 78. prefrontal, 79. heal, 80. unpaid, 81. rays

82. We want to \_\_\_\_\_ a schedule for the investigation.

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

83. The corporation \_\_\_\_\_ dominated the entire tobacco business.

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

84. He \_\_\_\_\_ jumped out of his chair when he heard the news.

- adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

85. The girl \_\_\_\_\_ when a young man whistled as she walked by.

- v.* to become red on your face, especially because you are embarrassed, angry, or hot; to rinse, clean, or empty something, especially a toilet, by causing large quantities of water to flow

86. The new \_\_\_\_\_ device has a faster processor and better graphics than its predecessor.

- n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

87. We \_\_\_\_\_ the payment because of an incorrect invoice.

- v.* to cause something to happen at a later time than originally intended or expected

88. We must \_\_\_\_\_ a new system to streamline our workflow and increase efficiency.

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

ANSWERS: 82. coordinate, 83. eventually, 84. literally, 85. flushed, 86. tablet, 87. delayed, 88. develop



89. The \_\_\_\_\_ exercised great care in landing.

- n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

90. He is the \_\_\_\_\_ and chairman of this tech company.

- n.* one of several people who establishes an organization or starts a business

91. The police officer used his \_\_\_\_\_ to disperse the crowd.

- n.* a thin stick or rod used as a conductor's wand, a symbol of authority, or a tool for specific sports or activities; a short, straight, light stick that is passed from runner to runner in a relay race

92. I heard the \_\_\_\_\_ of conversation from the next room.

- v.* to make a continuous, low humming sound such as the one bee makes; an exciting and active atmosphere

93. The \_\_\_\_\_ of allergies has increased in recent years.

- n.* the state or condition of being widespread or common; the extent or frequency of occurrence of a disease or condition in a given population at a specific time

94. They never \_\_\_\_\_ on development despite the lack of funds.

- v.* to settle a problem or disagreement by mutual concession

95. \_\_\_\_\_ advances have disrupted many industries.

- adj.* based on scientific and industrial progress

96. The study aimed to establish a \_\_\_\_\_ relationship between smoking and lung cancer.

- adj.* relating to or indicating a cause or the relationship between causes and effects; resulting from a cause

ANSWERS: 89. pilot, 90. cofounder, 91. baton, 92. buzz, 93. prevalence, 94. compromised, 95. Technological, 96. causal

97. I want to buy a reliable car rather than a \_\_\_\_\_ one.

*adj.* attractive or impressive by being bright, expensive, large, etc.; (used especially of clothes) marked by conspicuous display

98. Draw a circle five centimeters in \_\_\_\_\_.

*n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference

99. The accident made his vision \_\_\_\_\_.

*v.* to damage something or make it weaker or worse

100. He \_\_\_\_\_ his investigation into a medical clinic.

*v.* to become or make something broader, wider, more extensive

101. During colonial eras, new migratory patterns \_\_\_\_\_.

*v.* to move out of or away from something and become visible

102. The majority of students actively \_\_\_\_\_ in the college's intramural sports program.

*v.* to take part in something

103. I need to \_\_\_\_\_ my car regularly to prevent any major mechanical issues.

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

104. There are \_\_\_\_\_ differences between the two wine-producing regions.

*adj.* easy to see, discover or understand

105. The book \_\_\_\_\_ my imagination.

*v.* to encourage something to develop or become more active; to stir the feelings or emotions

ANSWERS: 97. flashy, 98. diameter, 99. impaired, 100. widened, 101. emerged, 102. participated, 103. maintain, 104. obvious, 105. stimulated

106. The \_\_\_ protein has been found to play a role in the development of Alzheimer's disease and other neurological disorders.

*n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2

107. She received special \_\_\_\_\_ training at the hospital.

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

108. 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

109. His \_\_\_\_\_ faculties were getting worse because of a lack of sleep.

*adj.* of or relating to mental processes of understanding

110. The economic stimulation program would \_\_\_\_\_ a lot of new jobs.

*v.* to produce or create something; to make offspring by reproduction

111. Parents often \_\_\_\_\_ their characteristics to their children.

*v.* to send or forward an electronic signal; to pass something from one person or thing to another

112. The \_\_\_\_\_ truck arrived with the packages.

*n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth

113. You are not \_\_\_\_\_ in your behavior.

*adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.

ANSWERS: 106. tau, 107. clinical, 108. brain, 109. cognitive, 110. generate, 111. transmit, 112. delivery, 113. consistent

114. The study of \_\_\_\_\_ examines the physiological processes that lead to disease.
- n.* the study of the changes in normal bodily functions that occur as a result of disease or injury; the study of the functional changes that occur in an organism as a result of disease, injury, or abnormality
115. The \_\_\_\_\_ candlelight added a cozy ambiance to the room.
- adj.* shining or flashing in an unsteady or irregular way; fluctuating or wavering, often with regards to light or flame
116. Animals transmit nerve impulses through \_\_\_\_\_.
- n.* the fact or state of failing to finish an activity and of stopping using, making, or doing it
117. The \_\_\_\_\_ of stress over time can lead to health problems.
- n.* the accumulation or increase of something over time
118. The hotel is famous for its \_\_\_\_\_ including the casino.
- n.* public shows, films, television, or other performances or activities of enjoying people
119. The heart's \_\_\_\_\_ are responsible for pumping blood out to the body.
- n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
120. As people age, their digestive capacity also gradually \_\_\_\_\_.
- v.* to become gradually smaller, fewer, worse, etc.; to refuse to accept
121. In the hospital, she will remain under constant \_\_\_\_\_.
- n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 114. pathophysiology, 115. flickering, 116. synapses, 117. buildup, 118. entertainment, 119. ventricles, 120. declines, 121. observation

122. The company is set to \_\_\_\_\_ its new product line next month.

- v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

123. In medieval times, death punishment was \_\_\_\_\_ and socially accepted.

- adj.* existing or happening in various places or among many people

124. The teachers make full use of \_\_\_\_\_ assistance.

- n.* a person who performs or offers to perform a job or service without being paid for or forced to do

125. Our university is famous for its professors, who are well-versed in behavioral \_\_\_\_\_.

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

126. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.

- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

127. This medicine works best when taken at the \_\_\_\_\_ of a cold.

- n.* the beginning or early stages of unpleasant something; a military attack

128. The accomplished \_\_\_\_\_ will give two more performances this week.

- n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion

129. Health and \_\_\_\_\_ are, above all, gold.

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

ANSWERS: 122. launch, 123. widespread, 124. volunteer, 125. neuroscience, 126. determinant, 127. onset, 128. orchestra, 129. strength

130. The magician's tricks \_\_\_\_\_ the audience.

*v.* to fill with wonder, surprise, or admiration

131. Alzheimer's disease is characterized by the buildup of \_\_\_\_\_ plaques in the brain.

*n.* a type of protein that can accumulate abnormally in various tissues and organs in the body and is linked to various diseases, including Alzheimer's disease

132. The dead body was in an advanced state of \_\_\_\_\_.

*n.* the process or state of rotting or decomposition by natural causes such as the action of bacteria and fungi; (verb) to rot or decompose through natural causes

133. \_\_\_\_\_ rays are a type of high-energy radiation that can be harmful to living organisms.

*n.* the third letter of the Greek alphabet; a type of radiation having the shortest wavelength and highest energy of electromagnetic waves

134. 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.

ANSWERS: 130. amazed, 131. amyloid, 132. decay, 133. Gamma, 134. treatment