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Vocabulary Builder Reference from...

Mary Lou Jepsen: Could future devices read images from our brains? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

brain

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

synonym: intellect, mind, encephalon

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

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

surgery

n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

synonym: operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**

He had undergone heart **surgery** years before.

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.

moonshot

n. an ambitious, risky, and innovative project or goal, especially one that is intended to bring about radical

change or breakthroughs in a particular field or industry, often inspired by the lunar landing mission of Apollo 11 in 1969

synonym: initiative, endeavor, pursuit

(1) AI **moonshot**, (2) **moonshot** idea

The company's **moonshot** project aims to develop a revolutionary new technology within a tight deadline.

division

n. the act or outcome of splitting into separate parts; a critical organizational unit or sector

synonym: branch, separator, section

(1) cellular **division**, (2) **division** chief

Which **division** of the company do you work in?

display

v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

synonym: show, exhibit, present

(1) **display** merchandise, (2) **display** artwork

We need to **display** our products in an attractive way to attract customers.

stigma

n. a mark of shame or disgrace associated with a particular circumstance, quality, or person

synonym: mark, blemish, disgrace

(1) social **stigma**, (2) **stigma** against obesity

The mental health **stigma** often prevents people from seeking treatment.

neurosurgery

n. medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

(1) the department of **neurosurgery**, (2) specialize in **neurosurgery**

She has 20 years of experience in **neurosurgery**.

- goo** *n.* a sticky or slimy substance, often of indeterminate or unknown composition; a slang term used to describe something messy, chaotic, or confusing
synonym : slime, muck, gunk
(1) oozing **goo**, (2) slime **goo**
The science experiment involved mixing various liquids to create a bubbling **goo**.
- hormone** *n.* a chemical substance made by organs that encourages or influences the development, growth, sex, etc., of an animal and is carried around the body in the blood
(1) **hormone** secretion, (2) female **hormone**
The doctor diagnosed me with a **hormone** disorder.
- neurotransmitter** *n.* a chemical that carries nerve impulses between neurons or between neurons and muscles
(1) **neurotransmitter** receptor, (2) **neurotransmitters** released from the brain
Endorphins are a type of **neurotransmitter** that gives a sense of well-being.
- immediately** *adv.* now or without delay
synonym : directly, instantly, promptly
(1) **immediately** recall a product, (2) write him an answer **immediately**
A suspension order from the court is effective **immediately**.
- decide** *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
synonym : choose, determine, settle
(1) **decide** a question, (2) **decide** on a course of action
She couldn't **decide** whether to order the pizza or the pasta for dinner.
- chemical** *adj.* relating to or connected with chemistry;
synonym : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound
The firm has grown into a large **chemical** manufacturing.

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.

mixture

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

synonym: blend, amalgam, concoction

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

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

experimental

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

synonym: empirical, exploratory, observed

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

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

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

optimal

adj. the best; most likely to be successful or advantageous

synonym: optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to

survive.

dramatically

adv. in a very impressive manner

synonym : greatly, noticeably, suddenly

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

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

dramatic

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

synonym : striking, theatrical, breathtaking

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

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

typical

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

synonym : characteristic, usual, distinctive

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

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

constantly

adv. all the time

synonym : continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

arrogant

adj. having or revealing an exaggerated sense of one's importance or abilities

synonym : haughty, supercilious, disdainful

(1) an **arrogant** attitude, (2) grow **arrogant**

He was so **arrogant** that he thought he was always right.

insecure

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

synonym : uncertain, unsure, unconfident

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

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

handle

v. to deal with a situation, problem, or strong emotion

synonym : control, manage, deal with

(1) **handle** a precious object, (2) **handled** the incident

We all should learn how to **handle** stress.

appreciation

n. the act of recognizing and valuing the worth or importance of something or someone; gratitude or thankfulness; an increase in value over time

synonym : recognition, admiration, esteem

(1) express my **appreciation**, (2) **appreciation** for diversity

The artist received a lot of **appreciation** for his latest work.

intelligence

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

synonym : brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

creative

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

synonym : imaginative, innovative, inventive

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

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

metric

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

synonym : metrical, measured

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

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

prototype

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

synonym: mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

scenario

n. a description of possible actions or events in the future; a written outline of a play, film, or literary work

synonym: plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different

scenarios

The president prepared several possible **scenarios** for an enemy attack.

similarly

adv. in almost the same way

synonym: also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

dispute

n. a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one

synonym: argument, disagreement, quarrel

(1) a legal **dispute** over the title, (2) **dispute** settlement

The **dispute** over the ownership of the land has been ongoing for years.

debate

n. a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives

synonym: argument, discussion, dispute

(1) **debate** topic, (2) **debate** competition

The **debate** over climate change continues to be a hot topic in politics.

inventive

adj. able to come up with novel and unique ideas

synonym: imaginative, creative, innovative

(1) have the **inventive** talent, (2) **inventive** approach

All language around the world is consistently **inventive** but not intrusive.

vivid

adj. producing very clear, powerful, and detailed images in the mind

synonym: intense, powerful, dazzling

(1) **vivid** colors, (2) still **vivid** in my memory

She made a **vivid** impression.

sophistication

n. the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

synonym: refinement, culture, elegance

(1) cultural **sophistication**, (2) linguistic **sophistication**

The new technology added a level of **sophistication** to the manufacturing process.

analytical

adj. relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze

synonym: investigative, logical, cogent

(1) **analytical** approach, (2) **analytical** ability

He is **analytical** and can break down complex problems into manageable parts.

backbone

n. the spinal column of a vertebrate; a symbolic representation of strength and resilience

synonym: spine, courage, fortitude

(1) **backbone** of society, (2) **backbone** curve

She showed great **backbone** when standing up for her

beliefs in opposition.

imaginary

adj. existing only in someone's mind

synonym : fictional, ideal, fantastical

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

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

incredible

adj. unbelievable; enormous

synonym : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

possibility

n. a chance that something may happen or be true

synonym : chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

bottleneck

n. a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry

synonym : blockage, obstacle, barrier

(1) performance **bottleneck**, (2) **bottleneck** in production

Memory bandwidth is a significant **bottleneck** in this computational simulation.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym : determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

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**.

MRI

n. (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body

(1) **MRI** brain image, (2) cardiac **MRI**

The **MRI** machine uses powerful magnets to produce detailed images of the inside of the body.

functional

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

synonym: applicable, practical, usable

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

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

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym: attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

resonance

n. a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or

correspondence between two things

synonym : echo, vibration, reverberation

(1) **resonance** frequency, (2) harmonic **resonance**

The singer's voice filled the auditorium with beautiful **resonance**.

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**.

column

n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument

synonym : line, pillar, cue

(1) the spinal **column**, (2) a **column** of water

The newspaper devoted several **columns** to the affair.

individual

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

synonym : person, being, self

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

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

subtract

v. to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole

synonym : deduct, take away, remove

(1) **subtract** numbers, (2) **subtract** one from the total

I need to **subtract** the cost of my expenses from my income to see how much money I have left.

jack

n. a mechanical device used for lifting or supporting heavy objects

synonym : lever, crank, wrench

(1) a **jack** of all trades, (2) a line-in **jack**
He used a **jack** to lift the car to change the tire.

gallant

adj. brave, courageous, and honorable, often in a courteous manner; polite and attentive to women; elegant, stylish, or fashionable

synonym: brave, courageous, heroic

(1) **gallant** gesture, (2) **gallant** gentleman

The **gallant** knight saved the princess from the dragon, displaying bravery and chivalry.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

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

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

decode

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym: decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

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.

recognizable

adj. easy to become aware of or identify

synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

react

v. to take action in response to something

synonym : respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

sequence

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

synonym : arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

clip

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

synonym : buckle, hook, pin

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

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

jaw

n. either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information

synonym : mouth, (verb) chitchat

(1) snatch victory from the **jaws** of defeat, (2) **jaw** muscle

He dropped his **jaw** at the unexpected sight.

hundredfold

adj. a hundred times as great or as much

(1) rise nearly **hundredfold**, (2) improve **hundredfold**

The development team reported two **hundredfold** increases in performance.

glimpse

n. a brief or partial view; the act of seeing something or someone for a very short time or only partly

synonym : glance, peek, sighting

(1) a momentary **glimpse**, (2) passing **glimpse**

Our team caught a **glimpse** of the world-class technique in this game.

technique

n. a particular way or art of doing something that needs skill

synonym : approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

synonym : snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

skull

n. a bone framework that surrounds the brain and gives the head its shape

synonym : cranium, scalp, brain

(1) **skull** fracture, (2) have a thick **skull**

Archaeologists found a Neanderthal **skull** at that historic site.

electrode

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

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

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

propose

v. to make a proposal, declare a plan for something
synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes
I want to **propose** a toast in honor of our longstanding relationship.

conventional

adj. based on or following traditional rules, standards, customs, etc.

synonym: ancestral, customary, established

(1) a **conventional** style, (2) get a **conventional** loan
She is very **conventional** in her thoughts.

wisdom

n. the quality of being wise, or the ability to use your knowledge and experience to make sensible decisions

synonym: sagacity, discernment, insight

(1) a fountain of **wisdom**, (2) **wisdom** literature

The community greatly respected and sought after the older adult's **wisdom**.

magnet

n. an object or substance that can attract certain materials, such as iron or steel

synonym: magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

increment

n. a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important

synonym: increase, expansion, addendum

(1) steady **incremental** growth, (2) small **increments**

The bid **increment** for this auction is \$100.

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.

breakthrough

n. a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

synonym: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in AI.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

structure

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

synonym: construction, architecture, establishment

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

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

holography

n. a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns

synonym: three-dimensional photography, laser holography, digital holography

(1) optical **holography**, (2) 3D **holography**

Holography technology uses light interference patterns to create a 3D image.

interference

n. the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with

synonym: obstruction, hindrance, impedance

(1) officious **interference**, (2) **interference** wave

Unfortunately, the radio **interference** made it difficult to hear the broadcast.

precision

n. the quality or condition of being exact and accurate

synonym: accuracy, exactness, rigor

(1) a **precision** instrument, (2) speak with **precision**

This operation requires both patience and **precision**.

shifting

adj. constantly changing or moving

synonym: unfirm, shifty, fluctuating

(1) **shifting** balance, (2) continuously **shifting** landscape

Trends in the fashion industry are so **shifting** that it is challenging to keep up with them.

complicated

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

synonym: complex, convoluted, intricate

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

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

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

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

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

arrangement

n. a plan or preparation for the future event; the action or process of placing things in a particular order

synonym: placement, configuration, account

(1) **arrangement** of the furniture, (2) **arrangement** committee

As a first **arrangement**, we agreed to meet the following Friday.

advance

v. to go or move forward; to develop in a positive way
synonym : progress, boost, come along

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

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

ingeniously

adv. in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity

synonym : cleverly, resourcefully

(1) **ingeniously** planned, (2) **ingeniously** crafted

The engineer **ingeniously** solved the complex problem with a simple yet effective solution.

encode

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

synonym : transcribe, convert

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

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

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**.

transmitter

n. a piece of equipment used for generating and sending electronic signals, especially radio or television signals

synonym : sender

(1) a **transmitter** of a family line, (2) radio **transmitter**

This substance acts as a neural **transmitter** substance.

receiver

n. the part of a phone that you hold close to your ear and mouth; a person who receives something

synonym : acceptor, recipient, collector

(1) a GPS **receiver**, (2) aid **receiver**

Delivery companies often require the **receiver's** signature to certify the completion of package delivery.

uniform

adj. always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

synonym : livery, outfit

(1) at a **uniform** temperature, (2) our school **uniform**

This country has a nationally **uniform** culture.

addition

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

synonym : accumulation, expansion, addendum

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

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

combine

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

synonym : coalesce, cohere, blend

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

(2) **combine** augmented reality

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

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.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive**

layoffs.

extract

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

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**
Anesthetize the gum before **extracting** the teeth.

oxygen

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

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**
The passenger grabbed for the **oxygen** mask.

neural

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

synonym: sensory, neuronic, nervous

(1) **neural** stem cells, (2) **neural** networks in AI
There was a disturbance of **neural** function.

dump

v. to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly

synonym: throw away, dispose

(1) **dump** the gravel on the road, (2) **dump** hazardous waste

The company **dumped** him after several years of service.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

leapfrog

n. a children's game in which players take turns jumping over each other's stooped backs

synonym : hopping, jumpfrog

(1) **leapfrog** game, (2) **leapfrog** technology

During recess, the children played a game of **leapfrog** in the schoolyard.

communicate

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

synonym : convey, share, transmit

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

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

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

filter

n. any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

synonym : strainer

(1) gas **filter**, (2) clogged **filter**

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

irresistible

adj. impossible to resist or refuse; very attractive, appealing, or compelling

synonym : resistless, overpowering, compelling

(1) **irresistible** charm, (2) **irresistible** force

The aroma of freshly baked cookies was **irresistible** to her.

amplify

v. to enhance something, particularly sound or brightness

synonym : intensify, boost, argument

(1) **amplify** a signal, (2) **amplify** the effect

You might need to **amplify** this point.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym : dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

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.

regardless

adv. not paying attention or considering something or someone even if the situation is bad or there are difficulties

synonym : anyhow, nevertheless, still

(1) **regardless** of the difficulties, (2) **regardless** tread

People can pick out superior products **regardless** of the quality of the advertising.

Session 2: Spelling

- | | |
|----------------------------------|---|
| 1. de___e a question | <i>v.</i> to make up someone's mind about something; to come to a conclusion or judgment after considering options |
| 2. chemical ad_____on | <i>n.</i> the act or process of adding something to something else; the process of adding numbers |
| 3. social st___a | <i>n.</i> a mark of shame or disgrace associated with a particular circumstance, quality, or person |
| 4. di_____l electronic signature | <i>adj.</i> processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet |
| 5. mo_____ot idea | <i>n.</i> an ambitious, risky, and innovative project or goal, especially one that is intended to bring about radical change or breakthroughs in a particular field or industry, often inspired by the lunar landing mission of Apollo 11 in 1969 |
| 6. arr_____nt of the furniture | <i>n.</i> a plan or preparation for the future event; the action or process of placing things in a particular order |
| 7. 3D hol_____hy | <i>n.</i> a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns |

ANSWERS: 1. decide, 2. addition, 3. stigma, 4. digital, 5. moonshot, 6. arrangement, 7. holography

8. im_____ry pregnancy *adj.* existing only in someone's mind
9. si_____ly situated *adv.* in almost the same way
10. radio tra_____er *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
11. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
12. re__t at a high temperature *v.* to take action in response to something
13. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
14. have the in_____ve talent *adj.* able to come up with novel and unique ideas
15. ho_____e secretion *n.* a chemical substance made by organs that encourages or influences the development, growth, sex, etc., of an animal and is carried around the body in the blood
16. int_____nce wave *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
17. at a un_____m temperature *adj.* always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

ANSWERS: 8. imaginary, 9. similarly, 10. transmitter, 11. sequence, 12. react, 13. engineer, 14. inventive, 15. hormone, 16. interference, 17. uniform

18. a momentary gl_____e *n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly
19. su_____ct one from the total *v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
20. su_____ct numbers *v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
21. gas fi____r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
22. speak with pr_____on *n.* the quality or condition of being exact and accurate
23. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
24. perfect mi_____e *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
25. ex_____e weather events *adj.* very great in amount or degree
26. the professor of su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 18. glimpse, 19. subtract, 20. subtract, 21. filter, 22. precision, 23. experiment, 24. mixture, 25. extreme, 26. surgery

27. a fountain of wi___m *n.* the quality of being wise, or the ability to use your knowledge and experience to make sensible decisions
28. im_____e the test score *v.* to make or become better
29. key performance me___cs *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
30. ma_____e stars *adj.* enormous amount; very heavy and solid
31. small in_____nts *n.* a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important
32. en___e data *v.* to convert information into a code or format suitable for storage or transmission
33. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
34. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
35. fr_____cy band *n.* an ordered array of colors into which a light beam can be split
36. cardiac su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 27. wisdom, 28. improve, 29. metric, 30. massive, 31. increment, 32. encode, 33. combine, 34. oxygen, 35. frequency, 36. surgery

37. re_____ce frequency *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
38. clogged fi____r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
39. snatch victory from the j_ws of defeat *n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information
40. botanical ex_____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
41. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
42. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
43. write him an answer imm_____ly *adv.* now or without delay
44. toxic ch_____als *adj.* relating to or connected with chemistry;

ANSWERS: 37. resonance, 38. filter, 39. jaw, 40. extract, 41. crack, 42. complicated, 43. immediately, 44. chemical

45. a tra_____er of a family line *n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals
46. el_____de corrosion *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
47. bot_____ck in production *n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
48. increase sl_____ly *adv.* in a small degree or extent; a little
49. di_____y artwork *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
50. have si_____ly great abilities *adv.* in almost the same way
51. a private ind_____al *n.* a single person or thing, as distinct from a group
52. steady in_____ntal growth *n.* a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important
53. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
54. ha____ed the incident *v.* to deal with a situation, problem, or strong emotion

ANSWERS: 45. transmitter, 46. electrode, 47. bottleneck, 48. slightly, 49. display, 50. similarly, 51. individual, 52. increment, 53. sequence, 54. handle

55. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
56. harmonic re_____ce *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
57. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
58. ex_____e sports *adj.* very great in amount or degree
59. ma_____e amounts *adj.* enormous amount; very heavy and solid
60. grow ar_____nt *adj.* having or revealing an exaggerated sense of one's importance or abilities
61. neu_____ter receptor *n.* a chemical that carries nerve impulses between neurons or between neurons and muscles
62. wi_____m literature *n.* the quality of being wise, or the ability to use your knowledge and experience to make sensible decisions
63. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
64. passing gl_____e *n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly

ANSWERS: 55. mixture, 56. resonance, 57. technique, 58. extreme, 59. massive, 60. arrogant, 61. neurotransmitter, 62. wisdom, 63. scan, 64. glimpse

65. ga____t gesture *adj.* brave, courageous, and honorable, often in a courteous manner; polite and attentive to women; elegant, stylish, or fashionable
66. a brief ex____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
67. ana_____al ability *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
68. he confessed dra_____lly *adv.* in a very impressive manner
69. at inc_____le speed *adj.* unbelievable; enormous
70. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
71. optical hol_____hy *n.* a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns
72. lack of ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 65. gallant, 66. extract, 67. analytical, 68. dramatically, 69. incredible, 70. experimental, 71. holography, 72. oxygen

73. Al_____er's risk factors *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
74. co_____e augmented reality *v.* to join or merge to form a single thing or group
75. in_____ve approach *adj.* able to come up with novel and unique ideas
76. arr_____nt committee *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
77. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
78. di_____e settlement *n.* a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one
79. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
80. ne____l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
81. de____e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
82. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 73. Alzheimer, 74. combine, 75. inventive, 76. arrangement, 77. advance, 78. dispute, 79. scenario, 80. neural, 81. decode, 82. resolution

83. aid re_____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
84. im_____e a process *v.* to make or become better
85. ad_____e the technology *v.* to go or move forward; to develop in a positive way
86. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
87. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
88. platinum el_____des *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
89. tie c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
90. pr_____e changes *v.* to make a proposal, declare a plan for something
91. female ho_____e *n.* a chemical substance made by organs that encourages or influences the development, growth, sex, etc., of an animal and is carried around the body in the blood
92. op_____l for intellectual growth *adj.* the best; most likely to be successful or advantageous
93. d__p the gravel on the road *v.* to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly

ANSWERS: 83. receiver, 84. improve, 85. advance, 86. scan, 87. colleague, 88. electrode, 89. clip, 90. propose, 91. hormone, 92. optimal, 93. dump

94. en___e information *v.* to convert information into a code or format suitable for storage or transmission
95. pos_____ty for growth *n.* a chance that something may happen or be true
96. app_____ion for diversity *n.* the act of recognizing and valuing the worth or importance of something or someone; gratitude or thankfulness; an increase in value over time
97. irr_____ble force *adj.* impossible to resist or refuse; very attractive, appealing, or compelling
98. a j__k of all trades *n.* a mechanical device used for lifting or supporting heavy objects
99. j_w muscle *n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information
100. le_____og game *n.* a children's game in which players take turns jumping over each other's stooped backs
101. a con_____nal style *adj.* based on or following traditional rules, standards, customs, etc.
102. 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
103. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 94. encode, 95. possibility, 96. appreciation, 97. irresistible, 98. jack, 99. jaw, 100. leapfrog, 101. conventional, 102. disease, 103. intelligence

104. bre_____ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
105. have a thick sk__l *n.* a bone framework that surrounds the brain and gives the head its shape
106. permanent ma___t *n.* an object or substance that can attract certain materials, such as iron or steel
107. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
108. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
109. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
110. cardiac M_l *n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
111. am_____y the effect *v.* to enhance something, particularly sound or brightness
112. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
113. slime g_o *n.* a sticky or slimy substance, often of indeterminate or unknown composition; a slang term used to describe something messy, chaotic, or confusing

ANSWERS: 104. breakthrough, 105. skull, 106. magnet, 107. creative, 108. crack, 109. typical, 110. MRI, 111. amplify, 112. neuroscience, 113. goo

114. a dr____ic rescue at sea *adj.* very sudden, very excellent, or full of action and excitement
115. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
116. rec_____ble landmark *adj.* easy to become aware of or identify
117. di_____on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
118. ba_____ne curve *n.* the spinal column of a vertebrate; a symbolic representation of strength and resilience
119. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
120. a GPS re_____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
121. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
122. number of different sc_____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
123. sk__l fracture *n.* a bone framework that surrounds the brain and gives the head its shape
124. in_____re attachment *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
125. pr_____e the amendment *v.* to make a proposal, declare a plan for something

ANSWERS: 114. dramatic, 115. experiment, 116. recognizable, 117. division, 118. backbone, 119. experimental, 120. receiver, 121. lab, 122. scenario, 123. skull, 124. insecure, 125. propose

126. le____og technology *n.* a children's game in which players take turns jumping over each other's stooped backs
127. the department of neu_____ery *n.* medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves
128. a ch____al compound *adj.* relating to or connected with chemistry;
129. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
130. neu_____ters released from the brain *n.* a chemical that carries nerve impulses between neurons or between neurons and muscles
131. a line-in j__k *n.* a mechanical device used for lifting or supporting heavy objects
132. performance bot_____ck *n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
133. a ma____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
134. reg_____ss of the difficulties *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
135. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options

ANSWERS: 126. leapfrog, 127. neurosurgery, 128. chemical, 129. structure, 130. neurotransmitter, 131. jack, 132. bottleneck, 133. magnetic, 134. regardless, 135. decide

136. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
137. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
138. ability to de___e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
139. ana_____al approach *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
140. an ar_____nt attitude *adj.* having or revealing an exaggerated sense of one's importance or abilities
141. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
142. to a rec_____ble degree *adj.* easy to become aware of or identify
143. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
144. ma_____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
145. 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

ANSWERS: 136. functional, 137. brain, 138. decode, 139. analytical, 140. arrogant, 141. intelligence, 142. recognizable, 143. technique, 144. magnetic, 145. process

146. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
147. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
148. a con_____ly varying mind *adv.* all the time
149. a legal di_____e over the title *n.* a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one
150. di_____y merchandise *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
151. de___e topic *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
152. short video c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
153. linguistic sop_____ion *n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
154. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 146. brain, 147. nanoscale, 148. constantly, 149. dispute, 150. display, 151. debate, 152. clip, 153. sophistication, 154. creative

155. re__t against his way of thinking *v.* to take action in response to something
156. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
157. genic com_____ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
158. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
159. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
160. im_____ry number *adj.* existing only in someone's mind
161. inc_____le amount *adj.* unbelievable; enormous
162. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
163. irr_____ble charm *adj.* impossible to resist or refuse; very attractive, appealing, or compelling
164. reg_____ss tread *adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
165. a pr_____on instrument *n.* the quality or condition of being exact and accurate

ANSWERS: 155. react, 156. neural, 157. combination, 158. communicate, 159. possibility, 160. imaginary, 161. incredible, 162. process, 163. irresistible, 164. regardless, 165. precision

166. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
167. oozing g_o *n.* a sticky or slimy substance, often of indeterminate or unknown composition; a slang term used to describe something messy, chaotic, or confusing
168. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
169. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
170. officious int_____nce *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
171. make dr_____ic changes *adj.* very sudden, very excellent, or full of action and excitement
172. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
173. a theoretical concept in
neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
174. 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

ANSWERS: 166. prototype, 167. goo, 168. typical, 169. lab, 170. interference, 171. dramatic, 172. resolution, 173. neuroscience, 174. disease

175. sudden br_____ve *n.* a sudden idea or inspiration; a moment of great insight or creativity
176. am_____y a signal *v.* to enhance something, particularly sound or brightness
177. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
178. an in_____re future *adj.* not firm or firmly fixed; likely to fail or give way, or not assured of safety
179. ga_____t gentleman *adj.* brave, courageous, and honorable, often in a courteous manner; polite and attentive to women; elegant, stylish, or fashionable
180. ing_____ly planned *adv.* in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
181. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
182. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
183. our school un_____m *adj.* always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

ANSWERS: 175. brainwave, 176. amplify, 177. addition, 178. insecure, 179. gallant, 180. ingeniously, 181. nanoscale, 182. digital, 183. uniform

184. Al mo____ot *n.* an ambitious, risky, and innovative project or goal, especially one that is intended to bring about radical change or breakthroughs in a particular field or industry, often inspired by the lunar landing mission of Apollo 11 in 1969
185. improve hun_____ld *adj.* a hundred times as great or as much
186. get a con_____nal loan *adj.* based on or following traditional rules, standards, customs, etc.
187. sh_____ng balance *adj.* constantly changing or moving
188. the spinal co____n *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
189. de____e competition *n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
190. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
191. M_I brain image *n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
192. field of vi____l arts *adj.* relating to seeing or sight

ANSWERS: 184. moonshot, 185. hundredfold, 186. conventional, 187. shifting, 188. column, 189. debate, 190. dramatically, 191. MRI, 192. visual

193. express my app_____ion *n.* the act of recognizing and valuing the worth or importance of something or someone; gratitude or thankfulness; an increase in value over time
194. ha___e a precious object *v.* to deal with a situation, problem, or strong emotion
195. continuously sh_____ng landscape *adj.* constantly changing or moving
196. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
197. d__p hazardous waste *v.* to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly
198. sl_____ly alkaline soils *adv.* in a small degree or extent; a little
199. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
200. ing_____ly crafted *adv.* in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
201. ind_____al freedom *n.* a single person or thing, as distinct from a group
202. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
203. a con_____ly innovative enterprise *adv.* all the time
204. achieve op_____l health *adj.* the best; most likely to be successful or advantageous

ANSWERS: 193. appreciation, 194. handle, 195. shifting, 196. complicated, 197. dump, 198. slightly, 199. functional, 200. ingeniously, 201. individual, 202. communicate, 203. constantly, 204. optimal

205. specialize in neu_____ery *n.* medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves
206. high fr_____cy *n.* an ordered array of colors into which a light beam can be split
207. vi__d colors *adj.* producing very clear, powerful, and detailed images in the mind
208. ba_____ne of society *n.* the spinal column of a vertebrate; a symbolic representation of strength and resilience
209. cultural sop_____ion *n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
210. cellular di_____on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
211. still vi__d in my memory *adj.* producing very clear, powerful, and detailed images in the mind
212. bre_____ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
213. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
214. former co_____ue *n.* one of a group of a coworker, especially in a profession or a business

ANSWERS: 205. neurosurgery, 206. frequency, 207. vivid, 208. backbone, 209. sophistication, 210. division, 211. vivid, 212. breakthrough, 213. structure, 214. colleague

215. ma___t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
216. a co___n of water *n.* one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
217. br_____ve idea *n.* a sudden idea or inspiration; a moment of great insight or creativity
218. me___c units *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
219. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
220. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
221. vi___l navigation *adj.* relating to seeing or sight
222. com_____on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
223. Al_____er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

ANSWERS: 215. magnet, 216. column, 217. brainwave, 218. metric, 219. prototype, 220. engineer, 221. visual, 222. combination, 223. Alzheimer

224. st___a against obesity *n.* a mark of shame or disgrace associated with a particular circumstance, quality, or person
225. rise nearly hun_____ld *adj.* a hundred times as great or as much
226. imm_____ly recall a product *adv.* now or without delay

ANSWERS: 224. stigma, 225. hundredfold, 226. immediately

Session 3: Fill in the Blanks

1. 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
2. All the supervisor has to do is assign tasks that make his subordinates more _____.
adj. relating to or involving the use of skill and original and unusual ideas to create something
3. His car was easily _____ in the parking lot.
adj. easy to become aware of or identify
4. 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
5. He used a _____ to lift the car to change the tire.
n. a mechanical device used for lifting or supporting heavy objects
6. The newspaper devoted several _____ to the affair.
n. one of the vertical blocks that split content on a page or screen from top to bottom; an upright pillar that often supports an arch, entablature, or other structure or stands alone as a monument
7. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

ANSWERS: 1. neuroscience, 2. creative, 3. recognizable, 4. disease, 5. jack, 6. columns, 7. nanoscale

8. He was so _____ that he thought he was always right.
adj. having or revealing an exaggerated sense of one's importance or abilities
9. Her response revealed _____ idiocy.
adj. unbelievable; enormous
10. Wild animals need to go forward with the _____ action to survive.
adj. the best; most likely to be successful or advantageous
11. 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
12. The engineer _____ solved the complex problem with a simple yet effective solution.
adv. in a clever, inventive, or resourceful manner; with great skill, creativity, or ingenuity
13. The flying car is presently in the _____ stage.
n. a first or preliminary example of something such as a device or vehicle from which other forms are developed
14. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
15. The doctor diagnosed me with a _____ disorder.
n. a chemical substance made by organs that encourages or influences the development, growth, sex, etc., of an animal and is carried around the body in the blood

ANSWERS: 8. arrogant, 9. incredible, 10. optimal, 11. process, 12. ingeniously, 13. prototype, 14. experiments, 15. hormone

16. The _____ knight saved the princess from the dragon, displaying bravery and chivalry.

adj. brave, courageous, and honorable, often in a courteous manner; polite and attentive to women; elegant, stylish, or fashionable

17. She has 20 years of experience in _____.

n. medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

18. The science experiment involved mixing various liquids to create a bubbling ____.

n. a sticky or slimy substance, often of indeterminate or unknown composition; a slang term used to describe something messy, chaotic, or confusing

19. This country has a nationally _____ culture.

adj. always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

20. The company _____ him after several years of service.

v. to deposit or dispose of something, such as trash, waste, etc., carelessly or hurriedly

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 software can _____ and decode encrypted messages.

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

23. Little children tend to have _____ friends.

adj. existing only in someone's mind

ANSWERS: 16. gallant, 17. neurosurgery, 18. goo, 19. uniform, 20. dumped, 21. engineer, 22. encode, 23. imaginary

24. Trends in the fashion industry are so _____ that it is challenging to keep up with them.

adj. constantly changing or moving

25. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.

n. a workplace for the conduct of scientific research; a laboratory

26. The software could _____ the encrypted data and reveal the hidden information.

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

27. In terms of _____ he was head and shoulders above his classmates.

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

28. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

29. He moved his body _____ to the left.

adv. in a small degree or extent; a little

30. We all should learn how to _____ stress.

v. to deal with a situation, problem, or strong emotion

31. The _____ force of the earth keeps our planet spinning.

adj. having the properties of attracting or repelling certain materials containing iron or steel

ANSWERS: 24. shifting, 25. lab, 26. decode, 27. intelligence, 28. visual, 29. slightly, 30. handle, 31. magnetic

32. The singer's voice filled the auditorium with beautiful _____.
- n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
33. I need to _____ the cost of my expenses from my income to see how much money I have left.
- v.* to take away or deduct a quantity or amount from a total; to remove or eliminate something from a larger whole
34. Memory bandwidth is a significant _____ in this computational simulation.
- n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
35. There was a disturbance of _____ function.
- adj.* of or relating to a nerve or the nervous system that includes the brain
36. We argue that wages for temporary workers should _____ rise.
- adv.* in almost the same way
37. The oscillator hunts for the correct _____.
- n.* an ordered array of colors into which a light beam can be split
38. The _____ over climate change continues to be a hot topic in politics.
- n.* a formal discussion or argument of opposing viewpoints, often to persuade others to adopt a specific position; a public discussion, often on an issue of current interest, in which participants offer opinions and differing perspectives
39. Our team caught a _____ of the world-class technique in this game.
- n.* a brief or partial view; the act of seeing something or someone for a very short time or only partly

ANSWERS: 32. resonance, 33. subtract, 34. bottleneck, 35. neural, 36. similarly, 37. frequency, 38. debate, 39. glimpse

40. The aroma of freshly baked cookies was _____ to her.
adj. impossible to resist or refuse; very attractive, appealing, or compelling
41. All language around the world is consistently _____ but not intrusive.
adj. able to come up with novel and unique ideas
42. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
43. The development team reported two _____ increases in performance.
adj. a hundred times as great or as much
44. The _____ to the safe was a secret.
n. a collection of things that have been combined; an assemblage of separate parts or qualities
45. He had undergone heart _____ years before.
n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
46. The _____ over the ownership of the land has been ongoing for years.
n. a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one
47. The bid _____ for this auction is \$100.
n. a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important

ANSWERS: 40. irresistible, 41. inventive, 42. complicated, 43. hundredfold, 44. combination, 45. surgery, 46. dispute, 47. increment

48. Endorphins are a type of _____ that gives a sense of well-being.
- n.* a chemical that carries nerve impulses between neurons or between neurons and muscles
49. The new technology added a level of _____ to the manufacturing process.
- n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
50. Hydrogen and oxygen _____ to form water.
- v.* to join or merge to form a single thing or group
51. The mobile phone was still _____ even after being dropped.
- adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
52. The organizational _____ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
53. Unfortunately, the radio _____ made it difficult to hear the broadcast.
- n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
54. How did he _____ to your idea?
- v.* to take action in response to something
55. During recess, the children played a game of _____ in the schoolyard.
- n.* a children's game in which players take turns jumping over each other's stooped backs

ANSWERS: 48. neurotransmitter, 49. sophistication, 50. combine, 51. functional, 52. structure, 53. interference, 54. react, 55. leapfrog

56. She couldn't _____ whether to order the pizza or the pasta for dinner.
- v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
57. He dropped his ____ at the unexpected sight.
- n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information
58. Anesthetize the gum before _____ the teeth.
- n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
59. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers
60. She showed great _____ when standing up for her beliefs in opposition.
- n.* the spinal column of a vertebrate; a symbolic representation of strength and resilience
61. He is _____ and can break down complex problems into manageable parts.
- adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
62. The community greatly respected and sought after the older adult's _____.
- n.* the quality of being wise, or the ability to use your knowledge and experience to make sensible decisions

ANSWERS: 56. decide, 57. jaw, 58. extracting, 59. addition, 60. backbone, 61. analytical, 62. wisdom

63. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way
64. The mobile application industry is _____ changing.
adv. all the time
65. My grandmother has _____ disease requires special care and attention from her caregivers.
n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
66. The passenger grabbed for the _____ mask.
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
67. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid
68. She stood on the podium and _____ an audience.
v. to examine something hastily, with the eyes or with a machine, to get information
69. The _____ of getting the disease will drastically increase.
n. a chance that something may happen or be true
70. The president prepared several possible _____ for an enemy attack.
n. a description of possible actions or events in the future; a written outline of a play, film, or literary work

ANSWERS: 63. advance, 64. constantly, 65. Alzheimer's, 66. oxygen, 67. massive, 68. scanned, 69. possibility, 70. scenarios

71. This artwork is _____ of her work.

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

72. I want to _____ a toast in honor of our longstanding relationship.

v. to make a proposal, declare a plan for something

73. Children in an unstructured environment often feel _____.

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

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

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

75. He that would eat the kernel must _____ the nut.

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

76. We need to _____ our products in an attractive way to attract customers.

v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

77. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

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

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

79. 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

ANSWERS: 71. typical, 72. propose, 73. insecure, 74. dramatic, 75. crack, 76. display, 77. extreme, 78. sequence, 79. brainwave

80. He fastens some sheets of paper with a _____.

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

81. She made a _____ impression.

- adj.* producing very clear, powerful, and detailed images in the mind

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

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

83. This substance acts as a neural _____ substance.

- n.* a piece of equipment used for generating and sending electronic signals, especially radio or television signals

84. Delivery companies often require the _____ signature to certify the completion of package delivery.

- n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

85. 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

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

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

87. In the _____ system, measurements are made in meters and liters.

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

ANSWERS: 80. clip, 81. vivid, 82. electrodes, 83. transmitter, 84. receiver's, 85. colleague, 86. individual, 87. metric

88. Which _____ of the company do you work in?
- n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
89. The ___ machine uses powerful magnets to produce detailed images of the inside of the body.
- n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
90. The MRI machine uses _____ to produce images of the body's internal organs.
- n.* an object or substance that can attract certain materials, such as iron or steel
91. The product is still in the _____ stage.
- adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
92. We want to _____ ties between our two countries.
- v.* to make or become better
93. Archaeologists found a Neanderthal _____ at that historic site.
- n.* a bone framework that surrounds the brain and gives the head its shape
94. The paint was a _____ of different pigments to achieve the desired color.
- n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
95. You might need to _____ this point.
- v.* to enhance something, particularly sound or brightness

ANSWERS: 88. division, 89. MRI, 90. magnets, 91. experimental, 92. improve, 93. skull, 94. mixture, 95. amplify

96. Life expectancy has grown _____ this century.

adv. in a very impressive manner

97. She is very _____ in her thoughts.

adj. based on or following traditional rules, standards, customs, etc.

98. The artist received a lot of _____ for his latest work.

n. the act of recognizing and valuing the worth or importance of something or someone; gratitude or thankfulness; an increase in value over time

99. A technique called deep learning has led to _____ in AI.

n. a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

100. He made a New Year's _____ to exercise more and eat healthier.

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

101. Jockey's superior _____ brought him victory.

n. a particular way or art of doing something that needs skill

102. _____ technology uses light interference patterns to create a 3D image.

n. a technique for creating three-dimensional images using lasers to record and reconstruct interference patterns

103. The firm has grown into a large _____ manufacturing.

adj. relating to or connected with chemistry;

ANSWERS: 96. dramatically, 97. conventional, 98. appreciation, 99. breakthroughs, 100. resolution, 101. technique, 102. Holography, 103. chemical

104. As a first _____ we agreed to meet the following Friday.
- n.* a plan or preparation for the future event; the action or process of placing things in a particular order
105. The company's _____ project aims to develop a revolutionary new technology within a tight deadline.
- n.* an ambitious, risky, and innovative project or goal, especially one that is intended to bring about radical change or breakthroughs in a particular field or industry, often inspired by the lunar landing mission of Apollo 11 in 1969
106. Ozone is a primary _____ to protect Earth's surface from harmful UV rays.
- n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
107. This operation requires both patience and _____.
- n.* the quality or condition of being exact and accurate
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. People can pick out superior products _____ of the quality of the advertising.
- adv.* not paying attention or considering something or someone even if the situation is bad or there are difficulties
110. The mental health _____ often prevents people from seeking treatment.
- n.* a mark of shame or disgrace associated with a particular circumstance, quality, or person

ANSWERS: 104. arrangement, 105. moonshot, 106. filter, 107. precision, 108. brain, 109. regardless, 110. stigma

111. Sensors convert physical phenomena into _____ signals.

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

112. A suspension order from the court is effective _____.

adv. now or without delay

113. Dolphins use sound to _____ with each other.

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

ANSWERS: 111. digital, 112. immediately, 113. communicate