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Vocabulary Builder Reference from...

Sajan Saini: How light technology is changing medicine | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

increasingly

adv. more and more

synonym: more and more, progressively

(1) **increasingly** become common, (2) face **increasingly** complicated challenges

Our company found it **increasingly** difficult to keep up with the competition.

sight

n. the ability to see; anything that is seen

synonym: vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**

Many famous **sights** are within walking distance.

nurse

n. a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury

synonym: healthcare worker, caregiver, medic

(1) **nurse** practitioner, (2) a volunteer **nurse**

The night shift **nurse** checked my vital signs before administering the medication.

attache

n. a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase

synonym : diplomat, envoy, briefcase

(1) a commercial **attache**, (2) black **attache** case

A prime minister talked with a military **attache** of the country's embassy.

glowing

adj. highly enthusiastic; greatly praised

synonym : burning, bright, flaming

(1) **glowing** reviews, (2) **glowing** cheeks

The western sky was **glowing** pink.

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**.

suddenly

adv. quickly and unexpectedly

synonym : abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

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.

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.

bloodstream

n. the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain
Cancer cells are often carried throughout the body by the **bloodstream**.

translucent

adj. allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

synonym: semi-transparent, see-through

(1) **translucent** glass, (2) **translucent** skin

The sunlight shone through the **translucent** curtains, casting a warm glow in the room.

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.

Don

n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge

(1) the **don** of the university, (2) **Don** Giovanni

He could never go against what **Don** Carlos said.

flashlight

n. a portable electric light with a handle and a switch that can be turned on and off

synonym: torch, lamp, beacon

(1) **flashlight** beam, (2) **flashlight** batteries

He used a backup **flashlight** to find his way through the dark cave.

thumb

n. the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists

synonym: digit, finger, phalange

(1) **thumb** wrestling, (2) **thumb** a ride

He used his right **thumb** to press the button on his phone.

probe

n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym: investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

medical

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

synonym: health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

pulse

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

synonym: beat, vibration, throb

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

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

oximeter

n. a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe

synonym: oxygen meter, oximetry device

(1) **oximeter** reading, (2) portable **oximeter**

The doctor used a digital **oximeter** to measure the patient's oxygen levels.

inhale

v. to breathe in air or a different substance, such as smoke

synonym: breathe in, take in, draw in

(1) **inhale** the smoke, (2) **inhale** the aroma

He **inhaled** deeply, trying to calm down.

lung

n. either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation
He has terminal **lung** cancer.

transfer

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

synonym : move, relocate, shift

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

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

hemoglobin

n. a protein-based molecule found in red blood cells that transports oxygen throughout the body

synonym : red cell pigment, oxygen carrier

(1) **hemoglobin** level, (2) abnormal **hemoglobin**

The **hemoglobin** gene mutation can cause genetic disorders such as sickle cell disease.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

ratio

n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal

synonym : proportion, rate, quota

(1) debt-to-income **ratio**, (2) **ratio** of boys to girls

The **ratio** of water to sugar in the recipe is 1:2.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym : catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

absorb

v. to take in a fluid or other substance gradually

synonym :

consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock

The sponge **absorbs** water well.

counterpart

n. a person or thing that corresponds to or has the same function as another person or thing

synonym: equivalent, analogue, match

(1) **counterpart** agreement, (2) negotiating **counterpart**

His **counterpart** in the other company is responsible for marketing.

concentration

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

synonym: attention, engagement, assiduity

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

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

patient

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

synonym: client, recipient, subject

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

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

correspond

v. to match or be similar to something else almost exactly; to exchange messages

synonym: match, equate, communicate

(1) **correspond** to a standard, (2) **correspond** with a foreign student

The numbers on the sign **correspond** to points on the map.

artery

n. one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

synonym: blood vessel, channel, roadway

(1) **artery** blockage, (2) risk of coronary **artery** disease
Continuous consumption of fatty foods leads to the hardening of the **artery**.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

infrared

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

synonym: thermal, warm, radiant

(1) an **infrared** lamp, (2) **infrared** radiation

The **infrared** camera revealed a hidden image on the surface.

wavelength

n. the distance between two points in the same phase in consecutive cycles of a wave

(1) **wavelength** of light, (2) long- **wavelength** laser

White color is made up of many different **wavelengths** of light.

vast

adj. enormous in size, number, amount, or quantity

synonym: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

spectrum

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

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

visible

adj. capable of being seen; or open to easy view

synonym: clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

efficiency

n. the state or quality of doing something well with no waste of input such as time or money

synonym: effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**

Our company must continue to strive for greater **efficiency**.

contrast

v. to put in opposition to show or emphasize differences

synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things

It's intriguing to compare and **contrast** the two authors.

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.

fingerprint

n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

synonym: print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

eliminate

v. to remove or get rid of someone or something

synonym: wipe out, destroy, eradicate

(1) **eliminate** contestants, (2) **eliminate** sexual barriers

We can **eliminate** this possibility from those consumptions.

emerging

adj. starting to exist, mature, or become well-known
synonym : arising, occurring, state-of-the-art

(1) **emerging** country, (2) **emerging** technologies
Emerging technologies have dramatically improved productivity in various industries.

industrious

adj. hardworking, diligent, and persistent in effort
synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student
He was known to be very **industrious** and would often work late into the night.

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym : analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options
The management must **explore** strategies to increase office security.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym : level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade
She received her **degree** in psychology from the university.

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**.

manipulate

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

synonym : control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate**

Please tell me how to **manipulate** this computer.

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.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

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.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym : particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

silicon

n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

Silicon is the second most abundant element on earth after oxygen.

redirect

v. to change the direction or course of something; to send in a different direction

synonym: turn, divert, steer

(1) **redirect** traffic, (2) **redirect** attention

The government decided to **redirect** funding towards education and healthcare.

reshape

v. to change the form or structure of something

synonym: alter, adjust, modify

(1) **reshape** education policy, (2) **reshape** my thoughts

The advent of the Internet completely **reshaped** the manufacturing industry.

temporarily

adv. for a limited time only or not permanently

synonym: for a time

(1) a hut made **temporarily**, (2) **temporarily** suspend the production

Some athletes take anabolic steroids to increase muscle size **temporarily**.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym: catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

resonate

v. to be filled with a deep echoing sound

synonym: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

circular

adj. shaped like a circle; having a round form

synonym : round, loopy, oblique

(1) **circular** economy, (2) non- **circular** orbit

The **circular** shape of the planet makes it difficult to determine which direction is north.

trapper

n. a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain

synonym : hunter, catcher

(1) skilled **trapper**, (2) beaver **trapper**

The fur **trapper** spent months in the wilderness, searching for the best furs to sell.

enhance

v. to increase or improve the quality, amount, or strength of someone or something

synonym : improve, enrich, refine

(1) **enhance** value, (2) **enhance** the flavor of the vanilla

The new strategy will **enhance** the profitability of our company.

siphon

n. a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container

synonym : tube, hose, pipe

(1) **siphon** off political funds, (2) **siphon** jet

The **siphon** pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.

periodic

adj. happening at regular intervals over a while

synonym : regular, frequent, recurring

(1) the **periodic** blooming of the cherry-blossom,

(2) **periodic** payments

Astronomers are examining whether the **periodic** signals emanating from this star are artificial.

circumference

n. the distance around the outside of a circular or curved object or area

synonym : perimeter, edge, outer boundary

(1) angle of **circumference**, (2) chest **circumference**

The **circumference** of the earth is approximately 24,901 miles.

pluck

v. to pull or draw something, especially with sudden force or effort; to strip of feathers

synonym : grab, pull out, pick

(1) **pluck** a gray hair, (2) **pluck** out weeds

She **plucked** the flowers off the bush.

string

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

synonym : line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

vibrate

v. to move or cause anything to move fast and in small increments from side to side

synonym : oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

dominate

v. to have or control a lot of power and influence over somebody or something

synonym : govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak

The perspective of his right brain **dominates** his consciousness.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

overtone

n. a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound

synonym: harmonic, undertone, implication

(1) **overtone** color, (2) emotional **overtone**s

The singer's voice had a beautiful **overtone**, adding depth to the song.

origin

n. the first existence or beginning of something

synonym: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

efficiently

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

synonym: expeditiously, skillfully, ably

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

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

fiber

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

synonym: yarn, thread, wool

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

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

optics

n. the academic study of vision and light

(1) **optics** technology, (2) fiber **optics**

Einstein's new **optics** theory transformed traditional scientific notions about light.

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.

traffic

n. the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time

synonym : congestion, jam, flow

(1) **traffic** jam, (2) heavy **traffic**

We decided to take a detour to avoid the construction **traffic** on the main road.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym : adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

miniature

adj. being on a very small scale

synonym : mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

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**.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym : flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

penny

n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

synonym : cent, coin, copper

(1) **penny** stock, (2) save a **penny**

I found a lucky **penny** on the ground while walking to work this morning.

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.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym : explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

saliva

n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion

synonym : spit, drool, slobber

(1) dog's **saliva**, (2) dry mouth with little **saliva**

The dentist asked him to spit out the excess **saliva** into the sink.

sweat

n. the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress

synonym: perspiration, steam, hardwork

(1) all in a **sweat**, (2) **sweat** bath

She wiped the **sweat** off her forehead with a towel.

convenience

n. the state of being suitable or opportune

synonym: availability, usefulness, amenity

(1) **convenience** goods, (2) for **convenience** sake

They offered the **convenience** of an installment plan.

composition

n. the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone

synonym: creating, formatting, arrangement

(1) age **composition** of the population, (2) the piano passages in the **composition**

Their innovative concepts were consistent across their bodies of **composition**.

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.

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.

warn

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

synonym: alert, caution, admonish

(1) **warn** a reckless driver, (2) **warned** me of the plan

I attempted to **warn** him, but he ignored me.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

infectious

adj. able to be passed quickly from one person, animal, or plant to another, especially through air or water

synonym: contagious, epidemic, transmittable

(1) an **infectious** fever, (2) person's smile is **infectious**

Leprosy is an indolent **infectious** disease.

autoimmune

adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

(1) insulin **autoimmune** syndrome, (2) **autoimmune** disorder

The presence of certain substances triggered the **autoimmune** response.

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.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

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

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

identify

v. to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

sift

v. to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

synonym: filter, go through, sieve

(1) **sift** the candidates, (2) **sift** sand

The search engine helps **sift** information.

trace

v. to find or discover someone or something that was lost

synonym: seek, follow, depict

(1) **trace** a telephone call, (2) **trace** back to medieval times

Let's **trace** the origins of some familiar foreign words.

substance

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

synonym: essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

spit

v. to eject saliva or other liquid from the mouth

synonym: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

synonym: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

distinct

adj. noticeable from something else of a similar type

synonym: different, special, characteristic

(1) **distinct** difference, (2) **distinct** from each other

It is essential to keep these two issues **distinct**.

fine-tune

v. to make tiny changes or improvements to make it work as well as possible

synonym: adjust, calibrate, refine

(1) **fine-tune** financial systems, (2) **fine-tune** the engine

The government should not try to **fine-tune** the economy excessively based on a short-term prediction.

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.

resolve

v. to find a suitable answer to the problems or difficulty

synonym: decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error

This company **resolves** its battery problem completely.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

synonym: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans

This device is used to **diagnose** brain cancer and other tumors.

specific

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

synonym: particular, definite, distinct

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

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

vary

v. to become different in terms of size, shape, etc.

synonym: alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

globe

n. the earth or world, mainly used to emphasize its vastness

synonym: Earth, world, sphere

(1) terrestrial **globe**, (2) around the **globe**

His final goal is to sail around the **globe**.

trot

v. to run or jog at a moderate pace; to walk with long, quick strides

synonym: jog, run, race

(1) **trot** across the street, (2) **trot** off happily

She **trotted** to keep up with him.

humankind

n. the whole of the living human inhabitants of the earth

synonym: humanity, human race, society

(1) **humankind** as a species, (2) history of **humankind**
On the geological time scale, **humankind** has existed for a brief moment.

repurpose

v. to use something again for a different purpose than it was originally intended

synonym: reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car
The old barn was **repurposed** into a modern event space.

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.

illuminate

v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

synonym: brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding
That biologist **illuminated** the mechanism of heredity.

astonish

v. to surprise or shock someone greatly; to cause amazement or wonder

synonym: amaze, astound, surprise

(1) **astonish** audience, (2) **astonish** the world
Her incredible singing voice **astonished** everyone in the room.

discovery

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

synonym: finding, uncovering, detection

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

century

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

Session 2: Spelling

1. ca___r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
2. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
3. hem_____in level *n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body
4. di_____ct difference *adj.* noticeable from something else of a similar type
5. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
6. D_n Giovanni *n.* a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
7. portable ox_____er *n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe
8. ill_____te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

ANSWERS: 1. cancer, 2. rely, 3. hemoglobin, 4. distinct, 5. specific, 6. Don, 7. oximeter, 8. illuminate

9. his research area of
con_____ion
10. th__b wrestling
11. in___e the aroma
12. age com_____on of the
population
13. ov_____ne color
14. protein bio_____le
15. s__t the candidates
- n.* the ability to focus all your time and energy on one thing without thinking about anything else.
- n.* the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists
- v.* to breathe in air or a different substance, such as smoke
- n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
- n.* a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound
- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
- v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

ANSWERS: 9. concentration, 10. thumb, 11. inhale, 12. composition, 13. overtone, 14. biomolecule, 15. sift

16. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
17. face inc_____gly complicated challenges *adv.* more and more
18. beaver tr_____r *n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain
19. a commercial at_____e *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
20. emotional ov_____nes *n.* a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound
21. retie the st_____g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
22. fla_____ht beam *n.* a portable electric light with a handle and a switch that can be turned on and off
23. re_____se an old building *v.* to use something again for a different purpose than it was originally intended

ANSWERS: 16. represent, 17. increasingly, 18. trapper, 19. attache, 20. overtone, 21. string, 22. flashlight, 23. repurpose

24. cor_____nd to a standard *v.* to match or be similar to something else almost exactly; to exchange messages
25. as_____sh the world *v.* to surprise or shock someone greatly; to cause amazement or wonder
26. pe__y stock *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
27. a volunteer nu__e *n.* a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury
28. 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
29. blo_____am in an artery *n.* the blood flowing through the body
30. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
31. 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
32. tra_____nt glass *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
33. naval ve___ls *n.* a ship or large boat

ANSWERS: 24. correspond, 25. astonish, 26. penny, 27. nurse, 28. digital, 29. bloodstream, 30. adapt, 31. clip, 32. translucent, 33. vessel

34. gl_____g cheeks *adj.* highly enthusiastic; greatly praised
35. as_____sh audience *v.* to surprise or shock someone greatly; to cause amazement or wonder
36. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
37. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
38. the piano passages in the com_____on *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
39. do_____te over the weak *v.* to have or control a lot of power and influence over somebody or something
40. 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
41. carbon fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
42. fin_____nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
43. around the gl__e *n.* the earth or world, mainly used to emphasize its vastness
44. fla_____ht batteries *n.* a portable electric light with a handle and a switch that can be turned on and off

ANSWERS: 34. glowing, 35. astonish, 36. spectrum, 37. chip, 38. composition, 39. dominate, 40. integrate, 41. fiber, 42. fingerprint, 43. globe, 44. flashlight

45. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
46. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
47. em_____ng country *adj.* starting to exist, mature, or become well-known
48. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
49. 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
50. 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
51. save a pe__y *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
52. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing
53. fi_____ne the engine *v.* to make tiny changes or improvements to make it work as well as possible
54. ab____b energy *v.* to take in a fluid or other substance gradually

ANSWERS: 45. rely, 46. communicate, 47. emerging, 48. resolve, 49. protein, 50. oxygen, 51. penny, 52. lung, 53. fine-tune, 54. absorb

55. provide ac____te information *adj.* correct and exact in all details
56. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
57. si____n off political funds *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
58. increase sl____ly *adv.* in a small degree or extent; a little
59. di____ct from each other *adj.* noticeable from something else of a similar type
60. electronic de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
61. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
62. tr____c jam *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
63. ra__o of boys to girls *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal

ANSWERS: 55. accurate, 56. trap, 57. siphon, 58. slightly, 59. distinct, 60. device, 61. device, 62. traffic, 63. ratio

64. el_____te sexual barriers *v.* to remove or get rid of someone or something
65. en_____e the flavor of the vanilla *v.* to increase or improve the quality, amount, or strength of someone or something
66. v__t majority *adj.* enormous in size, number, amount, or quantity
67. fi_____ne financial systems *v.* to make tiny changes or improvements to make it work as well as possible
68. di_____se with CT scans *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
69. chest cir_____nce *n.* the distance around the outside of a circular or curved object or area
70. a pr_____on instrument *n.* the quality or condition of being exact and accurate
71. 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
72. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
73. s__t a bullet *v.* to eject saliva or other liquid from the mouth
74. synthetic fi__r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
75. an in_____ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

ANSWERS: 64. eliminate, 65. enhance, 66. vast, 67. fine-tune, 68. diagnose, 69. circumference, 70. precision, 71. communicate, 72. lab, 73. spit, 74. fiber, 75. infrared

76. v__y directly with the price
v. to become different in terms of size, shape, etc.
77. history of hu_____nd
n. the whole of the living human inhabitants of the earth
78. ex_____e the world
v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
79. mic_____ic inquiry
adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
80. di_____se the problem
v. to determine or distinguish the nature of a problem or an illness through a careful analysis
81. a remote re_____ve
adj. considered and evaluated through comparison with something else
82. id_____fy handwriting
v. to recognize someone or something and say or prove who or what they are
83. debt-to-income ra__o
n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
84. an explosive su_____ce
n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
85. di_____l electronic signature
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

ANSWERS: 76. vary, 77. humankind, 78. explore, 79. microscopic, 80. diagnose, 81. relative, 82. identify, 83. ratio, 84. substance, 85. digital

86. black at____e case *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
87. 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
88. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
89. an inf_____us fever *adj.* able to be passed quickly from one person, animal, or plant to another, especially through air or water
90. fiber op___s *n.* the academic study of vision and light
91. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
92. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
93. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
94. ca___r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

ANSWERS: 86. attache, 87. clip, 88. degree, 89. infectious, 90. optics, 91. detect, 92. identify, 93. fundamental, 94. cancer

106. pr__e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
107. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
108. pe_____ic payments *adj.* happening at regular intervals over a while
109. blood ve___ls *n.* a ship or large boat
110. in_____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
111. person's smile is inf_____us *adj.* able to be passed quickly from one person, animal, or plant to another, especially through air or water
112. ac_____te measurements *adj.* correct and exact in all details
113. in_____ed radiation *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
114. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another
115. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 106. probe, 107. discovery, 108. periodic, 109. vessel, 110. invasive, 111. infectious, 112. accurate, 113. infrared, 114. transfer, 115. detect

116. ox____er reading *n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe
117. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
118. ad__t as needed *v.* to make fit for or change to suit a new purpose or environment
119. mi_____re version *adj.* being on a very small scale
120. gl_____g reviews *adj.* highly enthusiastic; greatly praised
121. cou_____rt agreement *n.* a person or thing that corresponds to or has the same function as another person or thing
122. vi_____e at a regular frequency *v.* to move or cause anything to move fast and in small increments from side to side
123. negotiating cou_____rt *n.* a person or thing that corresponds to or has the same function as another person or thing
124. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
125. s__t a mouthful of saliva *v.* to eject saliva or other liquid from the mouth
126. cor_____nd with a foreign student *v.* to match or be similar to something else almost exactly; to exchange messages
127. man_____te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way

ANSWERS: 116. oximeter, 117. chip, 118. adapt, 119. miniature, 120. glowing, 121. counterpart, 122. vibrate, 123. counterpart, 124. concentration, 125. spit, 126. correspond, 127. manipulate

128. 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
129. 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
130. ind_____us student *adj.* hardworking, diligent, and persistent in effort
131. dog's sa____a *n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
132. sl_____ly alkaline soils *adv.* in a small degree or extent; a little
133. toxic ch_____als *adj.* relating to or connected with chemistry;
134. op____s technology *n.* the academic study of vision and light
135. a lunar pr__e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
136. ph____n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

ANSWERS: 128. protein, 129. integrate, 130. industrious, 131. saliva, 132. slightly, 133. chemical, 134. optics, 135. probe, 136. photon

137. fin_____nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
138. heavy tr_____c *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
139. in___e the smoke *v.* to breathe in air or a different substance, such as smoke
140. speak with pr_____on *n.* the quality or condition of being exact and accurate
141. vulnerable to man_____te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
142. nu___e practitioner *n.* a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury
143. sw___t bath *n.* the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
144. tr___e a telephone call *v.* to find or discover someone or something that was lost
145. crystalline si_____n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 137. fingerprint, 138. traffic, 139. inhale, 140. precision, 141. manipulate, 142. nurse, 143. sweat, 144. trace, 145. silicon

146. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
147. ill_____te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
148. re_____e education policy *v.* to change the form or structure of something
149. deeply re_____te with the consumers *v.* to be filled with a deep echoing sound
150. re_____se a used car *v.* to use something again for a different purpose than it was originally intended
151. dry mouth with little sa____a *n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
152. t__t across the street *v.* to run or jog at a moderate pace; to walk with long, quick strides
153. aut_____ne disorder *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
154. mi_____re camera *adj.* being on a very small scale
155. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
156. tr__e back to medieval times *v.* to find or discover someone or something that was lost
157. 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

ANSWERS: 146. trap, 147. illuminate, 148. reshape, 149. resonate, 150. repurpose, 151. saliva, 152. trot, 153. autoimmune, 154. miniature, 155. spectrum, 156. trace, 157. hormone

158. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
159. v__t desert *adj.* enormous in size, number, amount, or quantity
160. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
161. re_____ve factors *adj.* considered and evaluated through comparison with something else
162. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
163. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
164. bachelor's de____e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
165. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
166. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
167. a ch_____al compound *adj.* relating to or connected with chemistry;
168. dull si__t *n.* the ability to see; anything that is seen
169. ab____b a shock *v.* to take in a fluid or other substance gradually
170. bio_____le structure *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

ANSWERS: 158. medical, 159. vast, 160. efficiency, 161. relative, 162. resolve, 163.

microscopic, 164. degree, 165. molecule, 166. transfer, 167. chemical, 168. sight,
169. absorb, 170. biomolecule

171. for con_____ce sake *n.* the state of being suitable or opportune
172. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
173. a hut made tem_____ly *adv.* for a limited time only or not permanently
174. tem_____ly suspend the production *adv.* for a limited time only or not permanently
175. long-wav_____th laser *n.* the distance between two points in the same phase in consecutive cycles of a wave
176. angle of cir_____nce *n.* the distance around the outside of a circular or curved object or area
177. racial or_____n *n.* the first existence or beginning of something
178. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
179. 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
180. pl__k out weeds *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
181. inc_____gly become common *adv.* more and more
182. non-ci_____ar orbit *adj.* shaped like a circle; having a round form

ANSWERS: 171. convenience, 172. molecule, 173. temporarily, 174. temporarily, 175. wavelength, 176. circumference, 177. origin, 178. lab, 179. extract, 180. pluck, 181. increasingly, 182. circular

183. vi____e by X-ray *adj.* capable of being seen; or open to easy view
184. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
185. pa____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
186. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
187. con_____ce goods *n.* the state of being suitable or opportune
188. eff_____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
189. 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
190. s__t sand *v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles
191. terrestrial gl__e *n.* the earth or world, mainly used to emphasize its vastness
192. better fuel eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money

ANSWERS: 183. visible, 184. fundamental, 185. patient, 186. represent, 187. convenience, 188. efficiently, 189. disease, 190. sift, 191. globe, 192. efficiency

193. tense piano st___gs *n.* long, thin material used for tying things together, composed of several twisted threads
194. re_____ct attention *v.* to change the direction or course of something; to send in a different direction
195. do_____te possession *v.* to have or control a lot of power and influence over somebody or something
196. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
197. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
198. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
199. v__y according to the age *v.* to become different in terms of size, shape, etc.
200. ex_____e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
201. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

ANSWERS: 193. string, 194. redirect, 195. dominate, 196. patient, 197. pulse, 198. medical, 199. vary, 200. explore, 201. substance

202. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
203. wav_____th of light *n.* the distance between two points in the same phase in consecutive cycles of a wave
204. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
205. in_____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
206. the d_n of the university *n.* a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
207. ci_____ar economy *adj.* shaped like a circle; having a round form
208. 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
209. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
210. vi_____e with anger *v.* to move or cause anything to move fast and in small increments from side to side
211. a weak pu___e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 202. industrious, 203. wavelength, 204. discovery, 205. invasive, 206. Don, 207. circular, 208. oxygen, 209. specific, 210. vibrate, 211. pulse

212. em_____ng technologies *adj.* starting to exist, mature, or become well-known
213. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
214. insulin aut_____ne syndrome *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
215. 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
216. en_____e value *v.* to increase or improve the quality, amount, or strength of someone or something
217. an unexpected si__t *n.* the ability to see; anything that is seen
218. blo_____am to the brain *n.* the blood flowing through the body
219. vi_____e stars *adj.* capable of being seen; or open to easy view
220. si_____n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
221. th__b a ride *n.* the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists

ANSWERS: 212. emerging, 213. efficiently, 214. autoimmune, 215. extract, 216. enhance, 217. sight, 218. bloodstream, 219. visible, 220. silicon, 221. thumb

222. ar___y blockage *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
223. re_____ct traffic *v.* to change the direction or course of something; to send in a different direction
224. skilled tr_____r *n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain
225. re_____e my thoughts *v.* to change the form or structure of something
226. co_____st two things *v.* to put in opposition to show or emphasize differences
227. w__n a reckless driver *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
228. re_____te in the same frequency *v.* to be filled with a deep echoing sound
229. co_____st with a decade ago *v.* to put in opposition to show or emphasize differences
230. the pe_____ic blooming of the cherry-blossom *adj.* happening at regular intervals over a while
231. si_____n jet *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container

ANSWERS: 222. artery, 223. redirect, 224. trapper, 225. reshape, 226. contrast, 227. warn, 228. resonate, 229. contrast, 230. periodic, 231. siphon

232. die su____ly *adv.* quickly and unexpectedly
233. abnormal hem_____in *n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body
234. 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
235. or____n of information *n.* the first existence or beginning of something
236. tra_____nt skin *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
237. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
238. ph____n energy *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

ANSWERS: 232. suddenly, 233. hemoglobin, 234. disease, 235. origin, 236. translucent, 237. analyze, 238. photon

Session 3: Fill in the Blanks

1. Babies heavily _____ on others for food.
 - v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

2. The doctor used a digital _____ to measure the patient's oxygen levels.
 - n. a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe

3. During the flight, the wings of the plane _____.
 - v. to move or cause anything to move fast and in small increments from side to side

4. The fur _____ spent months in the wilderness, searching for the best furs to sell.
 - n. a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain

5. The teacher attempted to _____ the root cause of our mistake.
 - v. to think about in-depth and evaluate to discover essential features or meaning

6. It's intriguing to compare and _____ the two authors.
 - v. to put in opposition to show or emphasize differences

7. We elected him to _____ us at the international conference.
 - v. to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 1. rely, 2. oximeter, 3. vibrate, 4. trapper, 5. analyze, 6. contrast, 7. represent

8. On the geological time scale, _____ has existed for a brief moment.
n. the whole of the living human inhabitants of the earth
9. Their innovative concepts were consistent across their bodies of _____.
n. the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
10. We can use this campaign as a bargaining _____ in the negotiations.
n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
11. He has terminal _____ cancer.
n. either of the two organs in the chest that people and some animals use for breathing
12. 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
13. The _____ gene mutation can cause genetic disorders such as sickle cell disease.
n. a protein-based molecule found in red blood cells that transports oxygen throughout the body
14. A prime minister talked with a military _____ of the country's embassy.
n. a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
15. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory

ANSWERS: 8. humankind, 9. composition, 10. chip, 11. lung, 12. disease, 13. hemoglobin, 14. attache, 15. lab

16. The new strategy will _____ the profitability of our company.
v. to increase or improve the quality, amount, or strength of someone or something
17. Continuous consumption of fatty foods leads to the hardening of the _____.
n. one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
18. The police used a _____ scanner to identify the suspect.
n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
19. The western sky was _____ pink.
adj. highly enthusiastic; greatly praised
20. His final goal is to sail around the _____.
n. the earth or world, mainly used to emphasize its vastness
21. Cancer cells are often carried throughout the body by the _____.
n. the blood flowing through the body
22. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected
23. 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

ANSWERS: 16. enhance, 17. artery, 18. fingerprint, 19. glowing, 20. globe, 21. bloodstream, 22. fundamental, 23. integrate

24. We can _____ this possibility from those consumptions.
v. to remove or get rid of someone or something
25. His _____ in the other company is responsible for marketing.
n. a person or thing that corresponds to or has the same function as another person or thing
26. This device is used to _____ brain cancer and other tumors.
v. to determine or distinguish the nature of a problem or an illness through a careful analysis
27. The dentist asked him to spit out the excess _____ into the sink.
n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
28. The doctor carefully examined the _____ medical history.
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
29. He _____ deeply, trying to calm down.
v. to breathe in air or a different substance, such as smoke
30. Maximum heart rates _____ a lot for each individual.
v. to become different in terms of size, shape, etc.
31. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort

ANSWERS: 24. eliminate, 25. counterpart, 26. diagnose, 27. saliva, 28. patient's, 29. inhaled, 30. vary, 31. industrious

32. The _____ camera revealed a hidden image on the surface.

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

33. We decided to take a detour to avoid the construction _____ on the main road.

n. the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time

34. He could never go against what ____ Carlos said.

n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge

35. I attempted to _____ him, but he ignored me.

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

36. Who answers _____ knows little.

adv. quickly and unexpectedly

37. The advent of the Internet completely _____ the manufacturing industry.

v. to change the form or structure of something

38. She _____ the money from her savings account to her checking account.

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

39. The night shift _____ checked my vital signs before administering the medication.

n. a healthcare professional who is trained to provide care for the sick or injured;
(verb) to try to cure by special care or treatment of an illness or injury

ANSWERS: 32. infrared, 33. traffic, 34. Don, 35. warn, 36. suddenly, 37. reshaped, 38. transferred, 39. nurse

40. Many famous _____ are within walking distance.
n. the ability to see; anything that is seen
41. She _____ to keep up with him.
v. to run or jog at a moderate pace; to walk with long, quick strides
42. 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
43. The singer's voice had a beautiful _____ adding depth to the song.
n. a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound
44. White color is made up of many different _____ of light.
n. the distance between two points in the same phase in consecutive cycles of a wave
45. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
46. Please tell me how to _____ this computer.
v. to influence or control something or someone to your advantage, often in an unfair or dishonest way
47. Her incredible singing voice _____ everyone in the room.
v. to surprise or shock someone greatly; to cause amazement or wonder

ANSWERS: 40. sights, 41. trotted, 42. communicate, 43. overtone, 44. wavelengths, 45. origin, 46. manipulate, 47. astonished

48. Breast _____ is the most common type of cancer in women.
n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
49. She _____ the flowers off the bush.
v. to pull or draw something, especially with sudden force or effort; to strip of feathers
50. The _____ of water to sugar in the recipe is 1:2.
n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
51. The government should not try to _____ the economy excessively based on a short-term prediction.
v. to make tiny changes or improvements to make it work as well as possible
52. She tried to _____ out the gum that she had been chewing.
v. to eject saliva or other liquid from the mouth
53. 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
54. We can resolve support requests quickly and _____ by utilization of AI.
adv. in a way that produces maximum output with minimum effort or expense
55. The numbers on the sign _____ to points on the map.
v. to match or be similar to something else almost exactly; to exchange messages

ANSWERS: 48. cancer, 49. plucked, 50. ratio, 51. fine-tune, 52. spit, 53. digital, 54. efficiently, 55. correspond

56. He did complicated pen-and-ink drawings like medieval _____.
adj. being on a very small scale
57. The official transcript contains _____ academic records.
adj. correct and exact in all details
58. The _____ arrived in port the following day.
n. a ship or large boat
59. 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
60. I found a lucky _____ on the ground while walking to work this morning.
n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
61. 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
62. The enemy fell right into the _____.
n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
63. This operation requires both patience and _____.
n. the quality or condition of being exact and accurate

ANSWERS: 56. miniatures, 57. accurate, 58. vessel, 59. clip, 60. penny, 61. extracting, 62. trap, 63. precision

64. The _____ disease can spread quickly and potentially cause a global pandemic.

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

65. The government decided to _____ funding towards education and healthcare.

v. to change the direction or course of something; to send in a different direction

66. The management must _____ strategies to increase office security.

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

67. The sunlight shone through the _____ curtains, casting a warm glow in the room.

adj. allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

68. My home is easily _____ from the shore.

adj. capable of being seen; or open to easy view

69. They offered the _____ of an installment plan.

n. the state of being suitable or opportune

70. I advised him to _____ to his new surroundings.

v. to make fit for or change to suit a new purpose or environment

71. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

ANSWERS: 64. invasive, 65. redirect, 66. explore, 67. translucent, 68. visible, 69. convenience, 70. adapt, 71. relatives

72. _____ technologies have dramatically improved productivity in various industries.

adj. starting to exist, mature, or become well-known

73. The _____ of the earth is approximately 24,901 miles.

n. the distance around the outside of a circular or curved object or area

74. This company _____ its battery problem completely.

v. to find a suitable answer to the problems or difficulty

75. She wiped the _____ off her forehead with a towel.

n. the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress

76. I will introduce you to how to _____ the leading causes of the malfunction.

v. to recognize someone or something and say or prove who or what they are

77. Our company must continue to strive for greater _____.

n. the state or quality of doing something well with no waste of input such as time or money

78. Leprosy is an indolent _____ disease.

adj. able to be passed quickly from one person, animal, or plant to another, especially through air or water

79. The search engine helps _____ information.

v. to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

ANSWERS: 72. Emerging, 73. circumference, 74. resolves, 75. sweat, 76. identify, 77. efficiency, 78. infectious, 79. sift

80. 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
81. This device displayed the speech _____ spectrographically.
- n.* an ordered array of colors into which a light beam can be split
82. 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
83. 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
84. The _____ pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.
- n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
85. Let's _____ the origins of some familiar foreign words.
- v.* to find or discover someone or something that was lost
86. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
87. The perspective of his right brain _____ his consciousness.
- v.* to have or control a lot of power and influence over somebody or something

ANSWERS: 80. protein, 81. spectrum, 82. hormone, 83. device, 84. siphon, 85. trace, 86. discovery, 87. dominates

88. The sound _____ well in this theater.
v. to be filled with a deep echoing sound
89. He used a backup _____ to find his way through the dark cave.
n. a portable electric light with a handle and a switch that can be turned on and off
90. It is essential to keep these two issues _____.
adj. noticeable from something else of a similar type
91. The old barn was _____ into a modern event space.
v. to use something again for a different purpose than it was originally intended
92. He moved his body _____ to the left.
adv. in a small degree or extent; a little
93. The scientist conducted a study that provided _____ details about the species' behavior.
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
94. Einstein's new _____ theory transformed traditional scientific notions about light.
n. the academic study of vision and light
95. That biologist _____ the mechanism of heredity.
v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
96. She received her _____ in psychology from the university.
n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

ANSWERS: 88. resonates, 89. flashlight, 90. distinct, 91. repurposed, 92. slightly, 93. specific, 94. optics, 95. illuminated, 96. degree

97. The _____ of the argument was well-presented.

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

98. The presence of certain substances triggered the _____ response.

adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

99. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

100. The _____ team worked quickly to save the patient's life.

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

101. The sponge _____ water well.

v. to take in a fluid or other substance gradually

102. The security camera has _____ four intruders.

v. to find or recognize something, especially something difficult to see, hear, etc.

103. _____ is the second most abundant element on earth after oxygen.

n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

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

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

ANSWERS: 97. substance, 98. autoimmune, 99. photons, 100. medical, 101. absorbs, 102. detected, 103. Silicon, 104. string

105. 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

106. A _____ audience viewed the broadcast.

adj. enormous in size, number, amount, or quantity

107. The _____ shape of the planet makes it difficult to determine which direction is north.

adj. shaped like a circle; having a round form

108. The shape of the DNA _____ is a double helix.

n. a group of two or more atoms held together by attractive forces known as chemical bonds

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

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

110. Inspectors noticed _____ cracks in the submarine's hull.

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

111. Astronomers are examining whether the _____ signals emanating from this star are artificial.

adj. happening at regular intervals over a while

112. The cardiac monitor displays the intensity of your _____.

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

ANSWERS: 105. oxygen, 106. vast, 107. circular, 108. molecule, 109. fiber, 110. microscopic, 111. periodic, 112. pulse

113. He used his right _____ to press the button on his phone.

- n.* the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists

114. NASA sent a _____ to study the atmosphere of Jupiter.

- n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

115. DNA is a complex _____ that contains the genetic information of an organism.

- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

116. This exam requires excellent _____ to pass.

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

117. Our company found it _____ difficult to keep up with the competition.

- adv.* more and more

118. Some athletes take anabolic steroids to increase muscle size _____.

- adv.* for a limited time only or not permanently

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

- adj.* relating to or connected with chemistry;

ANSWERS: 113. thumb, 114. probe, 115. biomolecule, 116. concentration, 117. increasingly, 118. temporarily, 119. chemical