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Vocabulary Builder Reference from...

Cesar Harada: How I teach kids to love science | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

mess

n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

synonym: disarray, confusion, predicament

(1) have a whole **mess**, (2) get into a **mess**

He made a frightful **mess** in his room.

responsible

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

synonym: accountable, answerable, liable

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

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

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.

bubble

n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

synonym: blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**
Many people worry that the current real estate market is a **bubble** that could burst soon.

innocent

adj. not guilty of a crime, offense, etc.; not having an evil mind or knowledge

synonym: blameless, honest, harmless

(1) an **innocent** child, (2) thousands of **innocent** people
My husband was found **innocent** of any crime.

ignorance

n. lack of knowledge or information about a particular subject or fact

synonym: unintelligence, inexperience, unawareness

(1) **ignorance** of the law, (2) **ignorance** is bliss
His **ignorance** of the situation led him to make a poor decision.

ugly

adj. unattractive in appearance; unpleasant to look at

synonym: unattractive, unsightly, repulsive

(1) an **ugly** sound, (2) **ugly** building
The **ugly** truth was that he had been lying to her for months.

invention

n. the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**
Necessity is the mother of **invention**.

harbor

n. an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

synonym: port, dock, pier

(1) a sheltered **harbor**, (2) **harbor** a resentment
The tsunami swamped every boat in the **harbor**.

stumble

v. to miss a step and fall or nearly fall; to walk unsteadily
synonym: bumble, struggle, misstep

(1) **stumble** financially, (2) **stumble** through life
She **stumbled** over the tree root.

pile

n. a collection of objects positioned one on top of another;
a large sum of something, such as money

synonym: accumulation, heap, stack

(1) a sand **pile**, (2) the height of a **pile**
After the party, they had to clean up **piles** of dirty dishes.

trash

n. discarded material, refuse, or waste

synonym: garbage, waste, refuse

(1) **trash** bin, (2) **trash** disposal site

The city is taking measures to reduce the amount of **trash** in the streets.

alcohol

n. a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.

synonym: booze, liquor, ethanol

(1) stop drinking **alcohol**, (2) diluted **alcohol**

There is a clear association between **alcohol** consumption and cognitive decline.

horrify

v. to shock or disgust greatly

synonym: shock, dismay, terrify

(1) **horrify** audience, (2) **horrify** victims

The series of terrorist attacks **horrify** the entire nation.

microscope

n. an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

risky

adj. involving the possibility of danger, failure, or loss

synonym : dangerous, perilous, scary

(1) change **risky** behavior, (2) a **risky** enterprise

It is extremely **risky** to sail in such a storm.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

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

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

workshop

n. a place where people work, especially one where they do manual or practical work; a brief intensive course for a small group

synonym : studio, laboratory, atelier

(1) **workshop** attendee, (2) carpentry **workshop**

The artist held a **workshop** to teach students how to paint with watercolors.

workbench

n. a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context

synonym : worktable, bench, desk

(1) **workbench** design, (2) wooden **workbench**

I must organize my tools on the **workbench** before starting my project.

participate

v. to take part in something

synonym : take part, partake, enter

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

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

awesome

adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.

synonym : miraculous, marvelous, astounding

(1) **awesome** mental faculty, (2) have an **awesome** birthday
There is a lot of **awesome** nature and food in Hawaii.

grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym: mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh cup.

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.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

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.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym: cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

cam

n. a device or mechanism that converts rotary motion to linear motion or vice versa; a revolving cylinder with an

irregular shape used in machinery to convert rotary motion into intermittent or reciprocating motion; an abbreviation for camera

synonym : camera, device, gadget

(1) security **cam**, (2) **cam** lever

The mechanic adjusted the **cam** mechanism to improve the engine's performance.

plumbing

n. the system of pipes, fittings, and fixtures that are used to distribute water and remove waste in a building or structure; the trade or profession of installing and maintaining such systems

synonym : pipefitting, piping

(1) **plumbing** problem, (2) **plumbing** service

The **plumbing** in my house needs to be replaced because it keeps leaking.

fixture

n. an object firmly installed in place, especially in a household, such as a bath or a toilet

synonym : fitting, appliance, equipment

(1) a light **fixture**, (2) a **fixture** in the life

He has become a **fixture** of that restaurant.

assemble

v. to collect in one place as a single group

synonym : gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

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.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

rough

adj. not quite exact or correct; having or caused by an irregular surface

synonym: inelegant, coarse, barbarian

(1) **rough** and tough, (2) **rough** estimation

The vehicle bounced along the **rough** mountain road.

estimate

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

synonym: calculate, gauge, evaluate

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

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

boom

n. a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound

synonym: roaring, prosperity, boost

(1) **boom** in sales, (2) a sonic **boom**

The high-technology industry is enjoying a **boom**.

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**.

investigate

v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

synonym : examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak
The committee **investigated** several apparent inconsistencies.

hyperconnected

adj. having multiple, complex links or relationships between different people, objects, or systems

synonym : highly connected, fully connected

(1) **hyperconnected** network, (2) **hyperconnected** technology

The world has become increasingly **hyperconnected**, with the internet and social media playing a significant role in communication and information exchange.

spill

v. to cause or allow liquid to run or flow over the edge of its container by accident

synonym : slop, drop, scatter

(1) **spill** a bit of wine, (2) **spill** my heart

He was determined to **spill** everything.

bare

adj. not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something

synonym : naked, exposed, uncovered

(1) **bare** minimum, (2) **bare** essentials

She wore a simple dress with a **bare** neckline

mangrove

n. a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it

(1) **mangrove** forest, (2) **mangrove** swamp

The **mangrove** trees are known for their ability to survive in saltwater and sandy soil.

shock

n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

synonym : amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**
He got an electric **shock** at work.

mud

n. a soft, wet, sticky earth or clay
synonym: muck, sludge, ooze

(1) **mud** wall, (2) **mud** volcano

The **mud** of the swamp made it difficult to walk through the field.

spectrometer

n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
synonym: spectroscope, analyzer, detector

(1) **spectrometer** measurement, (2) optical **spectrometer**

The infrared **spectrometer** helped identify the chemical composition of the sample.

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.

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.

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.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym: compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

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**.

remotely

adv. at a distance; not directly or easily accessible

synonym: distantly, remotely, slightly

(1) **remotely** operate, (2) control **remotely**

The company can **remotely** access its employees' computers for troubleshooting purposes.

compel

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

synonym: force, oblige, coerce

(1) **compel** a person to submission, (2) **compel** attention

The strict deadlines will **compel** the team to work efficiently.

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.

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.

earthquake

n. a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

synonym: seismic activity, tremor, temblor

(1) an **earthquake** zone, (2) an **earthquake-proof**

The violent **earthquake** caused widespread damage and injuries throughout the region.

violent

adj. involving or caused by physical force or aggression against someone or something

synonym: aggressive, intense, turbulent

(1) victim of a **violent** crime, (2) **violent** incident

The protesters became **violent** when the police tried to disperse them.

trigger

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

synonym: activate, spark, drive

(1) **trigger** a biochemical response, (2) **trigger** inflation

The incident **triggered** a political controversy.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym: big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

tsunami

n. a huge ocean wave caused by an earthquake, volcano, or other disturbance

synonym: tidal wave, seismic sea wave

(1) **tsunami** warning, (2) **tsunami** relief

The earthquake- **tsunami** caused widespread destruction along the coast.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym : demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

instant

adj. happening immediately, with no delay

synonym : immediate, urgent, moment

(1) get **instant** access, (2) an **instant** reply

His pleasant face turned cold in an **instant**.

dam

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

synonym : barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

nuclear

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

synonym : atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

leak

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

synonym : outflow, divulge, disclose

(1) **leak** data, (2) **leak** a classified memo

He **leaked** serious accounting irregularities that only people in the company's executive could know.

pacific

adj. peaceful in character or intent; tending to lessen or avoid conflict; calm or soothing in manner or tone;
(noun, as "Pacific") the largest and deepest of Earth's oceanic divisions

synonym : calm, peaceful, tranquil

(1) **pacific-natured** disposition, (2) the **Pacific** Ocean
They adopted a **pacific** approach to resolving their differences, emphasizing dialogue and understanding.

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.

contamination

n. the presence of something harmful or unwanted in a substance, material, or environment; the act of introducing harmful substances or materials into an environment or area

synonym: pollution, defilement, infection

(1) **contamination** levels, (2) soil **contamination**

The **contamination** of the water supply led to widespread illness in the community.

radioactive

adj. emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

synonym: dangerous, contaminated, emanating

(1) **radioactive** decay, (2) **radioactive** isotope

The **radioactive** material was carefully stored in a lead-lined container.

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.

accident

n. an unfortunate event, especially one causing damage or injury

synonym: calamity, casualty, chance

(1) cause an **accident**, (2) injury in a car **accident**

The **accident** partially destroyed my vehicle.

independence

n. freedom from another's or others' control or influence
synonym : freedom, liberty, autonomy

(1) financial **independence**, (2) **independence** ceremony
There is nothing more valuable than **independence** and freedom.

mask

v. to conceal something; (noun) a covering that you wear over your face to hide it
synonym : disguise, camouflage, conceal

(1) **mask** body odor, (2) an oxygen **mask**
The politician tried to **mask** the corruption.

discuss

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
synonym : talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions
We need to **discuss** the next steps for the project during our meeting tomorrow.

strategy

n. a detailed plan of action designed to achieve a long-term or overall goal.
synonym : approach, procedure, scenario

(1) military **strategy**, (2) develop a **strategy**
Our plan includes a comprehensive marketing **strategy**.

itinerary

n. a detailed plan or route of a journey or trip, including the sequence of destinations, the dates and times of travel, and any other pertinent information such as hotel reservations or transportation arrangements
synonym : agenda, schedule, plan

(1) **itinerary** planning, (2) detailed **itinerary**
I need to finalize my travel **itinerary** for the upcoming business trip.

topographical

adj. relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location

synonym : terrain, geographic, landform

(1) **topographical** data, (2) **topographical** survey

The **topographical** map of the region revealed the rugged terrain we would face on the hike.

elevation

n. the height of something above sea level or above the ground; the event of something being raised upward

synonym : height, altitude, rise

(1) at an **elevation** of 1000 feet, (2) **elevation** in rank

The **elevation** of the mountain made it difficult to breathe.

sprinkler

n. a device that sprays water over a large area used especially for watering crops or gardens or for firefighting

synonym : sprayer, irrigation system

(1) road **sprinkler**, (2) **sprinkler** irrigation

The **sprinkler** system kept the lawn green and healthy.

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.

spray

n. a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage

synonym : mist, aerosol, atomizer

(1) a **spray** of mist, (2) an insect **spray**

The artist used a **spray** paint can to create a graffiti mural on the wall.

rainfall

n. the amount of rain that falls in a specific location at a particular moment

synonym : downpour, drizzle, rain

(1) the mean annual **rainfall**, (2) heavy **rainfall**

These plants thrive in hot climates with abundant **rainfall**.

expedition

n. a journey or voyage for a specific purpose

synonym : journey, trip, voyage

(1) **expedition** team, (2) a polar **expedition**

The **expedition** to the Amazon jungle was both exciting and challenging.

fishery

n. an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish

synonym : fishing, piscary, angling

(1) **fishery** management, (2) commercial **fishery**

The majority of the people on the island are **fishery** folk.

sediment

n. the substance that forms a solid layer at the bottom of the liquid

synonym : deposition, residue

(1) **sediment** runoff, (2) gravel **sediment**

Heavy rain often washes away **sediments** of the river.

seabed

n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms

synonym : ocean floor, sea bottom

(1) **seabed** mining, (2) **seabed** habitat

The dense coral reefs on the **seabed** provide a home for various marine life.

sampler

n. a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples

or examples of something, such as music, food, or products

(1) **sampler** album, (2) electronic **sampler**

The artist made a **sampler** of different paint textures and colors to help her decide what to use for her next project.

dispatch

v. to send someone or something somewhere for a particular purpose; to send a message or piece of information

synonym: send, release, kill

(1) **dispatch** soldiers, (2) **dispatch** a letter

The ambulance was **dispatched** to the scene of the accident.

estuary

n. a place where a river meets the sea, typically where the fresh and saltwater mix

synonym: delta, mouth, inlet

(1) **estuary** port, (2) **estuary** delta

The mouth of the river formed an **estuary** where saltwater and freshwater met.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

improvisation

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

synonym: spontaneity, ad-lib, extemporization

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

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

sushi

n. a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed

synonym : raw fish, sashimi, nigiri

(1) **sushi** bar, (2) **sushi** roll

I love going out for **sushi** with my friends on Friday nights.

progression

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

synonym : advancement, development, evolution

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

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

exciting

adj. causing a lot of interest or excitement

synonym : exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

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.

frustrate

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

synonym : hinder, thwart, dishearten

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

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

damage

v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

synonym: harm, impair, injure

(1) **damage** a relationship, (2) **damage** assessment

During the surgery, the doctor had to be extremely cautious not to **damage** a blood vessel.

leap

v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

synonym: jump, bound, hop

(1) **leap** to a conclusion, (2) **leap** of faith

The athlete was able to **leap** over the hurdle with ease.

industrial

adj. of or relating to or resulting from industry

synonym: manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

Industrial design has become more focused on human nature aspect than ever before.

environment

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

synonym: atmosphere, surroundings, climate

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

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

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

biology

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

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

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

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.

stud

n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

synonym: beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

acceleration

n. a rate of increase in velocity; the rate of change of velocity with respect to time

synonym: speed up, quicken, hastening

(1) a unit of **acceleration**, (2) **acceleration** of an object

The car's **acceleration** was impressive, going from 0 to 60 mph in just 5 seconds.

mobility

n. the ability to move or be moved freely or easily from one place, job, or social class to another

synonym: flexibility, maneuverability

(1) lack in **mobility**, (2) improve social **mobility**

I have limited **mobility** in my arms.

renewable

adj. capable of being renewed, extended, or replaced

synonym: sustainable, replaceable

(1) **renewable** energy, (2) **renewable** subscriptions

The production of **renewable** fuels requires massive volumes of fresh water.

wheelchair

n. a chair fitted with large wheels for use as a means of transport by a person who is unable to walk

(1) electric-powered **wheelchair**, (2) **wheelchair** accessibility

This library rents out various types of folding **wheelchairs** for visitors.

horrible

adj. extremely unpleasant or bad; causing fear or disgust
synonym: dreadful, terrible, awful

(1) **horrible** accident, (2) **horrible** smell

The experience was **horrible** and left a lasting impression.

afford

v. to have enough money or time to be able to buy or do something

(1) **afford** to buy a new car, (2) **afford** a high travel cost

He cannot **afford** a holiday.

shield

n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

synonym: guard, protection, safeguard

(1) a heat **shield**, (2) a **shield** for protecting against a bullet

Lead is an effective **shield** against X-rays, gamma rays, and other harmful radiation.

Session 2: Spelling

- | | | |
|--------------------------------------|------|---|
| 1. tr__e back to medieval times | v. | to find or discover someone or something that was lost |
| 2. d_m collapsing | n. | a wall constructed over a river to block the flow of water, mainly used to generate energy |
| 3. b__m in sales | n. | a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound |
| 4. ind_____al alcohol | adj. | of or relating to or resulting from industry |
| 5. 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 |
| 6. m_d wall | n. | a soft, wet, sticky earth or clay |
| 7. res_____le for a customer service | adj. | answerable or accountable for something within one's power, control, or management |
| 8. control re_____ly | adv. | at a distance; not directly or easily accessible |
| 9. 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 |

ANSWERS: 1. trace, 2. dam, 3. boom, 4. industrial, 5. process, 6. mud, 7. responsible, 8. remotely, 9. prototype

10. tr_____r inflation *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
11. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
12. es_____y port *n.* a place where a river meets the sea, typically where the fresh and saltwater mix
13. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
14. thousands of in_____nt people *adj.* not guilty of a crime, offense, etc.; not having an evil mind or knowledge
15. exp_____on team *n.* a journey or voyage for a specific purpose
16. cause an ac_____nt *n.* an unfortunate event, especially one causing damage or injury
17. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
18. lack in mo_____ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
19. fi_____y management *n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish
20. soil con_____ion *n.* the presence of something harmful or unwanted in a substance, material, or environment; the act of introducing harmful substances or materials into an environment or area

ANSWERS: 10. trigger, 11. represent, 12. estuary, 13. renewable, 14. innocent, 15. expedition, 16. accident, 17. creative, 18. mobility, 19. fishery, 20. contamination

21. top_____cal data *adj.* relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location
22. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
23. death from sh__k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
24. di_____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
25. an insect sp__y *n.* a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage
26. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
27. at an el_____on of 1000 feet *n.* the height of something above sea level or above the ground; the event of something being raised upward
28. wo_____op attendee *n.* a place where people work, especially one where they do manual or practical work; a brief intensive course for a small group

ANSWERS: 21. topographical, 22. reproduce, 23. shock, 24. discuss, 25. spray, 26. creative, 27. elevation, 28. workshop

29. l__p to a conclusion *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
30. ts_____i warning *n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance
31. su__i roll *n.* a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed
32. rad_____ve isotope *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
33. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
34. wo_____ch design *n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
35. security c_m *n.* a device or mechanism that converts rotary motion to linear motion or vice versa; a revolving cylinder with an irregular shape used in machinery to convert rotary motion into intermittent or reciprocating motion; an abbreviation for camera
36. pa_____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
37. pa_____c-natured disposition *adj.* peaceful in character or intent; tending to lessen or avoid conflict; calm or soothing in manner or tone; (noun, as "Pacific") the largest and deepest of Earth's oceanic divisions

ANSWERS: 29. leap, 30. tsunami, 31. sushi, 32. radioactive, 33. assemble, 34. workbench, 35. cam, 36. particle, 37. pacific

38. co___l a person to submission *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
39. pl_____ng problem *n.* the system of pipes, fittings, and fixtures that are used to distribute water and remove waste in a building or structure; the trade or profession of installing and maintaining such systems
40. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
41. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
42. hyp_____ted network *adj.* having multiple, complex links or relationships between different people, objects, or systems
43. heavy ra_____ll *n.* the amount of rain that falls in a specific location at a particular moment
44. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
45. ho_____le accident *adj.* extremely unpleasant or bad; causing fear or disgust
46. an ear_____ke zone *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

ANSWERS: 38. compel, 39. plumbing, 40. nuclear, 41. hack, 42. hyperconnected, 43. rainfall, 44. estimate, 45. horrible, 46. earthquake

47. get into a m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
48. spe_____ter measurement *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
49. ma_____ve forest *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
50. par_____te fully in conversation *v.* to take part in something
51. rad_____ve decay *adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up
52. ig_____ce is bliss *n.* lack of knowledge or information about a particular subject or fact
53. bu___e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
54. re_____le energy *adj.* capable of being renewed, extended, or replaced
55. a ri__y enterprise *adj.* involving the possibility of danger, failure, or loss
56. a polar exp_____on *n.* a journey or voyage for a specific purpose
57. an u__y sound *adj.* unattractive in appearance; unpleasant to look at

ANSWERS: 47. mess, 48. spectrometer, 49. mangrove, 50. participate, 51. radioactive, 52. ignorance, 53. bubble, 54. renewable, 55. risky, 56. expedition, 57. ugly

58. el_____on in rank *n.* the height of something above sea level or above the ground; the event of something being raised upward
59. write him an answer imm_____ly *adv.* now or without delay
60. the mean annual ra_____ll *n.* the amount of rain that falls in a specific location at a particular moment
61. m__k body odor *v.* to conceal something; (noun) a covering that you wear over your face to hide it
62. ho_____y victims *v.* to shock or disgust greatly
63. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
64. road sp_____er *n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
65. a heat sh____d *n.* a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
66. ig_____ce of the law *n.* lack of knowledge or information about a particular subject or fact
67. top_____cal survey *adj.* relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location
68. tr__h bin *n.* discarded material, refuse, or waste
69. ma_____ve swamp *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it

ANSWERS: 58. elevation, 59. immediately, 60. rainfall, 61. mask, 62. horrify, 63. complicated, 64. sprinkler, 65. shield, 66. ignorance, 67. topographical, 68. trash, 69. mangrove

70. se___d habitat *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
71. inc_____gly become common *adv.* more and more
72. vi_____t incident *adj.* involving or caused by physical force or aggression against someone or something
73. c_m lever *n.* a device or mechanism that converts rotary motion to linear motion or vice versa; a revolving cylinder with an irregular shape used in machinery to convert rotary motion into intermittent or reciprocating motion; an abbreviation for camera
74. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
75. an in_____t reply *adj.* happening immediately, with no delay
76. 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
77. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
78. da___e assessment *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

ANSWERS: 70. seabed, 71. increasingly, 72. violent, 73. cam, 74. giant, 75. instant, 76. substance, 77. particle, 78. damage

79. it_____ry planning *n.* a detailed plan or route of a journey or trip, including the sequence of destinations, the dates and times of travel, and any other pertinent information such as hotel reservations or transportation arrangements
80. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
81. improve social mo_____ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
82. a fi_____e in the life *n.* an object firmly installed in place, especially in a household, such as a bath or a toilet
83. par_____te in the program *v.* to take part in something
84. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
85. sp__l my heart *v.* to cause or allow liquid to run or flow over the edge of its container by accident
86. di_____s options *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
87. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

ANSWERS: 79. itinerary, 80. microscope, 81. mobility, 82. fixture, 83. participate, 84. destroy, 85. spill, 86. discuss, 87. hack

88. ex_____ng news *adj.* causing a lot of interest or excitement
89. a light fi_____e *n.* an object firmly installed in place, especially in a household, such as a bath or a toilet
90. ro__h estimation *adj.* not quite exact or correct; having or caused by an irregular surface
91. im_____ry pregnancy *adj.* existing only in someone's mind
92. se____d mining *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
93. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
94. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
95. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
96. commercial fi_____y *n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish
97. a sh____d for protecting against a bullet *n.* a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
98. the height of a p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money

ANSWERS: 88. exciting, 89. fixture, 90. rough, 91. imaginary, 92. seabed, 93. spectrum, 94. progression, 95. complicated, 96. fishery, 97. shield, 98. pile

99. sh__k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
100. gr__d away at my work *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
101. b__e minimum *adj.* not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something
102. an in_____nt child *adj.* not guilty of a crime, offense, etc.; not having an evil mind or knowledge
103. have an aw_____e birthday *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
104. re_____ly operate *adv.* at a distance; not directly or easily accessible
105. da___e a relationship *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
106. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
107. im_____ry number *adj.* existing only in someone's mind
108. injury in a car ac_____nt *n.* an unfortunate event, especially one causing damage or injury

ANSWERS: 99. shock, 100. grind, 101. bare, 102. innocent, 103. awesome, 104. remotely, 105. damage, 106. excite, 107. imaginary, 108. accident

109. an ear_____ke-proof *n.* a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface
110. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
111. a sand p__e *n.* a collection of objects positioned one on top of another; a large sum of something, such as money
112. co_____e augmented reality *v.* to join or merge to form a single thing or group
113. tr_____rm heat into power *v.* to change in outward structure or looks;
114. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
115. gravel se_____nt *n.* the substance that forms a solid layer at the bottom of the liquid
116. a sp__y of mist *n.* a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage
117. st_____e through life *v.* to miss a step and fall or nearly fall; to walk unsteadily
118. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
119. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 109. earthquake, 110. nuclear, 111. pile, 112. combine, 113. transform, 114. estimate, 115. sediment, 116. spray, 117. stumble, 118. environment, 119. represent

120. wooden wo_____ch *n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
121. carpentry wo_____op *n.* a place where people work, especially one where they do manual or practical work; a brief intensive course for a small group
122. whe_____ir accessibility *n.* a chair fitted with large wheels for use as a means of transport by a person who is unable to walk
123. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
124. st_____e financially *v.* to miss a step and fall or nearly fall; to walk unsteadily
125. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
126. sp__l a bit of wine *v.* to cause or allow liquid to run or flow over the edge of its container by accident
127. acc_____ion of an object *n.* a rate of increase in velocity; the rate of change of velocity with respect to time
128. ro__h and tough *adj.* not quite exact or correct; having or caused by an irregular surface
129. ma_____e stars *adj.* enormous amount; very heavy and solid
130. stop drinking al_____l *n.* a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
131. economic bu___e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 120. workbench, 121. workshop, 122. wheelchair, 123. biology, 124. stumble, 125. spectrum, 126. spill, 127. acceleration, 128. rough, 129. massive, 130. alcohol, 131. bubble

132. imm_____ly recall a product	<i>adv.</i> now or without delay
133. ind_____nce ceremony	<i>n.</i> freedom from another's or others' control or influence
134. af___d to buy a new car	<i>v.</i> to have enough money or time to be able to buy or do something
135. res_____le action	<i>adj.</i> answerable or accountable for something within one's power, control, or management
136. victim of a vi_____t crime	<i>adj.</i> involving or caused by physical force or aggression against someone or something
137. get in_____t access	<i>adj.</i> happening immediately, with no delay
138. hyp_____ted technology	<i>adj.</i> having multiple, complex links or relationships between different people, objects, or systems
139. change ri___y behavior	<i>adj.</i> involving the possibility of danger, failure, or loss
140. af___d a high travel cost	<i>v.</i> to have enough money or time to be able to buy or do something
141. a sonic b___m	<i>n.</i> a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound
142. op___s technology	<i>n.</i> the academic study of vision and light
143. pro_____on of civilization	<i>n.</i> the act or process of changing to the next stage or phase or moving forward
144. su_____ce abuse problem	<i>n.</i> 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: 132. immediately, 133. independence, 134. afford, 135. responsible, 136. violent, 137. instant, 138. hyperconnected, 139. risky, 140. afford, 141. boom, 142. optics, 143. progression, 144. substance

145. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
146. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
147. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
148. diluted al_____l *n.* a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
149. develop a st_____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
150. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
151. su__i bar *n.* a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed
152. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
153. co_____l attention *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way
154. di_____ch soldiers *v.* to send someone or something somewhere for a particular purpose; to send a message or piece of information
155. ho_____le smell *adj.* extremely unpleasant or bad; causing fear or disgust

ANSWERS: 145. improvisation, 146. identify, 147. improvisation, 148. alcohol, 149. strategy, 150. identify, 151. sushi, 152. industrial, 153. compel, 154. dispatch, 155. horrible

156. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
157. as_____le your colleagues *v.* to collect in one place as a single group
158. tr__h disposal site *n.* discarded material, refuse, or waste
159. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are
160. fr_____te other team members *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
161. a sheltered ha____r *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
162. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
163. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
164. tr__e a telephone call *v.* to find or discover someone or something that was lost
165. ho_____y audience *v.* to shock or disgust greatly
166. b__e essentials *adj.* not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something

ANSWERS: 156. experiment, 157. assemble, 158. trash, 159. giant, 160. frustrate, 161. harbor, 162. environment, 163. prototype, 164. trace, 165. horrify, 166. bare

167. wall s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
168. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
169. tr_____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
170. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
171. face inc_____gly complicated challenges *adv.* more and more
172. l__p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
173. ts_____i relief *n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance
174. fr_____te the advancement *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

ANSWERS: 167. stud, 168. microscope, 169. trigger, 170. reproduce, 171. increasingly, 172. leap, 173. tsunami, 174. frustrate

175. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
176. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
177. full of em_____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation
178. u__y building *adj.* unattractive in appearance; unpleasant to look at
179. de_____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
180. tr_____rm an education system *v.* to change in outward structure or looks;
181. ex_____ng football player *adj.* causing a lot of interest or excitement
182. l__k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
183. military st_____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
184. have a whole m__s *n.* a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy
185. fiber op____s *n.* the academic study of vision and light
186. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

ANSWERS: 175. experiment, 176. combine, 177. empathy, 178. ugly, 179. destroy, 180. transform, 181. exciting, 182. leak, 183. strategy, 184. mess, 185. optics, 186. investigate

187. m_d volcano *n.* a soft, wet, sticky earth or clay
188. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
189. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
190. con_____ion levels *n.* the presence of something harmful or unwanted in a substance, material, or environment; the act of introducing harmful substances or materials into an environment or area
191. financial ind_____nce *n.* freedom from another's or others' control or influence
192. the Pa_____c Ocean *adj.* peaceful in character or intent; tending to lessen or avoid conflict; calm or soothing in manner or tone; (noun, as "Pacific") the largest and deepest of Earth's oceanic divisions
193. aw_____e mental faculty *adj.* inspiring fear, admiration, or respect; very good, nice, fun, etc.
194. sa_____r album *n.* a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products
195. se_____nt runoff *n.* the substance that forms a solid layer at the bottom of the liquid

ANSWERS: 187. mud, 188. invention, 189. biology, 190. contamination, 191. independence, 192. pacific, 193. awesome, 194. sampler, 195. sediment

196. di____ch a letter *v.* to send someone or something somewhere for a particular purpose; to send a message or piece of information
197. an oxygen m__k *v.* to conceal something; (noun) a covering that you wear over your face to hide it
198. ma_____e amounts *adj.* enormous amount; very heavy and solid
199. gr__d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
200. em_____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
201. pl_____ng service *n.* the system of pipes, fittings, and fixtures that are used to distribute water and remove waste in a building or structure; the trade or profession of installing and maintaining such systems
202. 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
203. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 196. dispatch, 197. mask, 198. massive, 199. grind, 200. empathy, 201. plumbing, 202. process, 203. chemistry

204. es____y delta *n.* a place where a river meets the sea, typically where the fresh and saltwater mix
205. optical spe_____ter *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
206. sp_____er irrigation *n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
207. horse s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
208. electronic sa____r *n.* a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products
209. electric-powered whe_____ir *n.* a chair fitted with large wheels for use as a means of transport by a person who is unable to walk
210. detailed it_____ry *n.* a detailed plan or route of a journey or trip, including the sequence of destinations, the dates and times of travel, and any other pertinent information such as hotel reservations or transportation arrangements

ANSWERS: 204. estuary, 205. spectrometer, 206. sprinkler, 207. stud, 208. sampler, 209. wheelchair, 210. itinerary

211. inv_____te the matter *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
212. a unit of acc_____ion *n.* a rate of increase in velocity; the rate of change of velocity with respect to time
213. l__k a classified memo *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
214. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
215. ha___r a resentment *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
216. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
217. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
218. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 211. investigate, 212. acceleration, 213. leak, 214. dam, 215. harbor, 216. chemistry, 217. invention, 218. excite

Session 3: Fill in the Blanks

1. They adopted a _____ approach to resolving their differences, emphasizing dialogue and understanding.
adj. peaceful in character or intent; tending to lessen or avoid conflict; calm or soothing in manner or tone; (noun, as "Pacific") the largest and deepest of Earth's oceanic divisions

2. He bought a new _____ to attach the strap to his watch.
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

3. 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

4. The violent _____ caused widespread damage and injuries throughout the region.
n. a sudden and violent shaking of the ground caused by the movement of rock beneath the earth's surface

5. The committee _____ several apparent inconsistencies.
v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

6. This library rents out various types of folding _____ for visitors.
n. a chair fitted with large wheels for use as a means of transport by a person who is unable to walk

ANSWERS: 1. pacific, 2. stud, 3. represent, 4. earthquake, 5. investigated, 6. wheelchairs

7. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
8. 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
9. 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
10. The tsunami swamped every boat in the _____.
- n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
11. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
12. Hydrogen and oxygen _____ to form water.
- v.* to join or merge to form a single thing or group
13. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
14. The _____ material was carefully stored in a lead-lined container.
- adj.* emitting powerful and dangerous energy when the nuclei (= central parts) of atoms are broken up

ANSWERS: 7. environment, 8. complicated, 9. creative, 10. harbor, 11. improvisation, 12. combine, 13. invention, 14. radioactive

15. The _____ trees are known for their ability to survive in saltwater and sandy soil.
- n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
16. After the party, they had to clean up _____ of dirty dishes.
- n.* a collection of objects positioned one on top of another; a large sum of something, such as money
17. We can calculate the position of the _____ statistically.
- n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
18. The ambulance was _____ to the scene of the accident.
- v.* to send someone or something somewhere for a particular purpose; to send a message or piece of information
19. There is nothing more valuable than _____ and freedom.
- n.* freedom from another's or others' control or influence
20. My husband was found _____ of any crime.
- adj.* not guilty of a crime, offense, etc.; not having an evil mind or knowledge
21. He was determined to _____ everything.
- v.* to cause or allow liquid to run or flow over the edge of its container by accident
22. I used an optical _____ to observe the small organisms in the water sample.
- n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

ANSWERS: 15. mangrove, 16. piles, 17. particles, 18. dispatched, 19. independence, 20. innocent, 21. spill, 22. microscope

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

adv. now or without delay

24. The _____ in my house needs to be replaced because it keeps leaking.

n. the system of pipes, fittings, and fixtures that are used to distribute water and remove waste in a building or structure; the trade or profession of installing and maintaining such systems

25. The _____ of the mountain made it difficult to breathe.

n. the height of something above sea level or above the ground; the event of something being raised upward

26. The incident _____ a political controversy.

v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

27. The company can _____ access its employees' computers for troubleshooting purposes.

adv. at a distance; not directly or easily accessible

28. The _____ jets gradually dominate the world's airlines.

adj. enormous; much bigger or more important than similar items usually are

29. She _____ over the tree root.

v. to miss a step and fall or nearly fall; to walk unsteadily

30. She wore a simple dress with a _____ neckline

adj. not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something

ANSWERS: 23. immediately, 24. plumbing, 25. elevation, 26. triggered, 27. remotely, 28. giant, 29. stumbled, 30. bare

31. Many countries have now agreed to a treaty banning the use of _____ weapons.

adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

32. The athlete was able to _____ over the hurdle with ease.

v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

33. 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

34. Let's _____ the origins of some familiar foreign words.

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

35. He _____ serious accounting irregularities that only people in the company's executive could know.

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

36. The car's _____ was impressive, going from 0 to 60 mph in just 5 seconds.

n. a rate of increase in velocity; the rate of change of velocity with respect to time

37. Little children tend to have _____ friends.

adj. existing only in someone's mind

38. This blog offers a variety of tips for _____ everyday life.

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

ANSWERS: 31. nuclear, 32. leap, 33. identify, 34. trace, 35. leaked, 36. acceleration, 37. imaginary, 38. hacking

39. I need to finalize my travel _____ for the upcoming business trip.
- n.* a detailed plan or route of a journey or trip, including the sequence of destinations, the dates and times of travel, and any other pertinent information such as hotel reservations or transportation arrangements
40. The city is taking measures to reduce the amount of _____ in the streets.
- n.* discarded material, refuse, or waste
41. She had to _____ the coffee beans before making a fresh cup.
- v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
42. 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
43. The _____ system kept the lawn green and healthy.
- n.* a device that sprays water over a large area used especially for watering crops or gardens or for firefighting
44. The _____ truth was that he had been lying to her for months.
- adj.* unattractive in appearance; unpleasant to look at
45. 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
46. The building was _____ in the fire and had to be rebuilt.
- v.* to ruin or damage severely or completely; to eradicate or eliminate completely

ANSWERS: 39. itinerary, 40. trash, 41. grind, 42. process, 43. sprinkler, 44. ugly, 45. substance, 46. destroyed

47. I love going out for _____ with my friends on Friday nights.
n. a Japanese dish consisting of vinegared rice, often combined with fish or vegetables and sometimes wrapped in seaweed
48. It is extremely _____ to sail in such a storm.
adj. involving the possibility of danger, failure, or loss
49. The mouth of the river formed an _____ where saltwater and freshwater met.
n. a place where a river meets the sea, typically where the fresh and saltwater mix
50. The high-technology industry is enjoying a _____.
n. a sudden increase in economic activity, or a sudden happening that brings good fortune; a deep, loud, and prolonged sound
51. During the surgery, the doctor had to be extremely cautious not to _____ a blood vessel.
v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
52. The company has made great strides in its _____ toward sustainability.
n. the act or process of changing to the next stage or phase or moving forward
53. There is a lot of _____ nature and food in Hawaii.
adj. inspiring fear, admiration, or respect; very good, nice, fun, etc.
54. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things

ANSWERS: 47. sushi, 48. risky, 49. estuary, 50. boom, 51. damage, 52. progression, 53. awesome, 54. biology

55. The mechanic adjusted the ____ mechanism to improve the engine's performance.
- n.* a device or mechanism that converts rotary motion to linear motion or vice versa; a revolving cylinder with an irregular shape used in machinery to convert rotary motion into intermittent or reciprocating motion; an abbreviation for camera
56. The series of terrorist attacks _____ the entire nation.
- v.* to shock or disgust greatly
57. He got an electric _____ at work.
- n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
58. We _____ the season's total trade deficit at \$50 billion.
- v.* to guess or calculate the cost, size, value, etc. of something
59. The president began to _____ an army.
- v.* to collect in one place as a single group
60. I must organize my tools on the _____ before starting my project.
- n.* a sturdy table or bench designed for carrying out manual work, particularly in a workshop or garage context
61. Our company found it _____ difficult to keep up with the competition.
- adv.* more and more
62. The experience was _____ and left a lasting impression.
- adj.* extremely unpleasant or bad; causing fear or disgust

ANSWERS: 55. cam, 56. horrify, 57. shock, 58. estimated, 59. assemble, 60. workbench, 61. increasingly, 62. horrible

63. The recent economic downturn has resulted in _____ layoffs.

adj. enormous amount; very heavy and solid

64. The coach explained a strategy to _____ the opponent's schemes to the players.

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

65. The artist held a _____ to teach students how to paint with watercolors.

n. a place where people work, especially one where they do manual or practical work; a brief intensive course for a small group

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

v. to change in outward structure or looks;

67. The strict deadlines will _____ the team to work efficiently.

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

68. His pleasant face turned cold in an _____.

adj. happening immediately, with no delay

69. The majority of students actively _____ in the college's intramural sports program.

v. to take part in something

70. 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

ANSWERS: 63. massive, 64. frustrate, 65. workshop, 66. transformed, 67. compel, 68. instant, 69. participated, 70. prototype

71. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
72. He has become a _____ of that restaurant.
n. an object firmly installed in place, especially in a household, such as a bath or a toilet
73. The ____ of the swamp made it difficult to walk through the field.
n. a soft, wet, sticky earth or clay
74. The world has become increasingly _____ with the internet and social media playing a significant role in communication and information exchange.
adj. having multiple, complex links or relationships between different people, objects, or systems
75. This device displayed the speech _____ spectrographically.
n. an ordered array of colors into which a light beam can be split
76. The artist used a _____ paint can to create a graffiti mural on the wall.
n. a fine mist of liquid that is dispersed into the air; flower arrangement consisting of a single branch or shoot bearing flowers and foliage
77. The infrared _____ helped identify the chemical composition of the sample.
n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
78. He made a frightful _____ in his room.
n. a state of confusion, dirtiness, or untidiness; (verb) to fail to do something or to make something dirty or untidy

ANSWERS: 71. experiments, 72. fixture, 73. mud, 74. hyperconnected, 75. spectrum, 76. spray, 77. spectrometer, 78. mess

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

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

80. The artist made a _____ of different paint textures and colors to help her decide what to use for her next project.

n. a piece of fabric or other material that has a variety of different stitches or designs worked into it, used as a reference or example of different embroidery techniques; a selection or collection of different samples or examples of something, such as music, food, or products

81. The findings of the experiment were both _____ and unexpected.

adj. causing a lot of interest or excitement

82. His _____ of the situation led him to make a poor decision.

n. lack of knowledge or information about a particular subject or fact

83. The break in the ____ threatened the valley.

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

84. We need to _____ the next steps for the project during our meeting tomorrow.

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

85. Our plan includes a comprehensive marketing _____.

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

86. The politician tried to _____ the corruption.

v. to conceal something; (noun) a covering that you wear over your face to hide it

ANSWERS: 79. responsible, 80. sampler, 81. exciting, 82. ignorance, 83. dam, 84. discuss, 85. strategy, 86. mask

87. I have limited _____ in my arms.
- n.* the ability to move or be moved freely or easily from one place, job, or social class to another
88. There is a clear association between _____ consumption and cognitive decline.
- n.* a clear liquid that can make people drunk and is used in medicines, cleaning products, etc.
89. The _____ of the water supply led to widespread illness in the community.
- n.* the presence of something harmful or unwanted in a substance, material, or environment; the act of introducing harmful substances or materials into an environment or area
90. The protesters became _____ when the police tried to disperse them.
- adj.* involving or caused by physical force or aggression against someone or something
91. Einstein's new _____ theory transformed traditional scientific notions about light.
- n.* the academic study of vision and light
92. He cannot _____ a holiday.
- v.* to have enough money or time to be able to buy or do something
93. The earthquake-_____ caused widespread destruction along the coast.
- n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance
94. The majority of the people on the island are _____ folk.
- n.* an area of water where fish are caught in large quantities for living; a business or practice of catching and selling fish

ANSWERS: 87. mobility, 88. alcohol, 89. contamination, 90. violent, 91. optics, 92. afford, 93. tsunami, 94. fishery

95. The production of _____ fuels requires massive volumes of fresh water.
adj. capable of being renewed, extended, or replaced
96. Heavy rain often washes away _____ of the river.
n. the substance that forms a solid layer at the bottom of the liquid
97. Many people worry that the current real estate market is a _____ that could burst soon.
n. a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
98. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry
99. By dividing and creating copies of themselves, bacteria _____.
v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
100. _____ is also necessary to understand history.
n. the ability to share another person's feelings or experiences by imagining that person's situation
101. Lead is an effective _____ against X-rays, gamma rays, and other harmful radiation.
n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
102. These plants thrive in hot climates with abundant _____.
n. the amount of rain that falls in a specific location at a particular moment

ANSWERS: 95. renewable, 96. sediments, 97. bubble, 98. Industrial, 99. reproduce, 100. Empathy, 101. shield, 102. rainfall

103. The dense coral reefs on the _____ provide a home for various marine life.
n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
104. The news of her promotion _____ her.
v. to make someone feel suddenly enthusiastic or eager
105. The _____ to the Amazon jungle was both exciting and challenging.
n. a journey or voyage for a specific purpose
106. He is familiar with _____ and biology.
n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions
107. The vehicle bounced along the _____ mountain road.
adj. not quite exact or correct; having or caused by an irregular surface
108. The _____ map of the region revealed the rugged terrain we would face on the hike.
adj. relating to the arrangement or physical features of a geographical area or terrain; relating to the detailed description or mapping of the physical features of a location
109. The _____ partially destroyed my vehicle.
n. an unfortunate event, especially one causing damage or injury

ANSWERS: 103. seabed, 104. excited, 105. expedition, 106. chemistry, 107. rough, 108. topographical, 109. accident