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Vocabulary Builder Reference from...

Kevin Kelly: How AI can bring on a second Industrial Revolution | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

aspect

n. one part or feature of a situation, problem, subject, etc.
synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

predictable

adj. capable of being known, seen or declared in advance
synonym: foreseeable, expectable, likely

(1) **predictable** pattern, (2) in a **predictable** manner

The economy becomes more volatile and less **predictable**.

technological

adj. based on scientific and industrial progress
synonym: specialized, technical

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

Technological advances have disrupted many industries.

lean

adj. having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

synonym: skinny, slender, (verb) slant

(1) a **lean** horse, (2) **lean** athletic figure

Lean operational improvements often lead to better

environmental performance.

urgency

n. the quality of being very important and needing to be dealt with immediately

synonym: importance, importunity, urging

(1) **urgency** in the use of force, (2) matter of **urgency**

She departed hurriedly because of some significant **urgency** in their affairs.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

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.

electron

n. a tiny particle with the negative electrical charge

synonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym: heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

valley

n. a long depression on the surface of the land, which typically contains a river

synonym: canyon, gorge, dale

(1) **valley** bottom, (2) basin-shaped **valley**

The **valley** had received a mild snowfall the previous week.

unpredictable

adj. not capable of being foreseen or calculated; not regular or certain

synonym : uncertain, variable, random

(1) dangerously **unpredictable** person, (2) **unpredictable** outcome

The weather in this region is often **unpredictable**, with sudden rainstorms and strong winds.

inevitable

adj. certain to happen and unavoidable

synonym : inescapable, unavoidable, sure

(1) **inevitable** changes of the seasons, (2) **inevitable** result
In times of recession, an increase in unemployment is **inevitable**.

downward

adj. moving towards a lower position or a lower level

synonym : lower, earthward, descending

(1) a **downward** slope, (2) maintain **downward** compatibility

The stock market has been in a **downward** trend for the past month.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

ongoing

adj. continuing to exist or develop, or currently happening

synonym : continuous, current, proceeding

(1) still **ongoing**, (2) **ongoing** support

The new prime minister has vowed to take measures against the **ongoing** economic crisis.

chief

adj. most important or primary; (noun) a person who is in charge

synonym : essential, primary, leading

(1) **chief** accountant, (2) **chief** events of the year

Mining is a **chief** source of income for the country.

cognitive

adj. of or relating to mental processes of understanding

synonym : perceivable, mind, mental

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

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

intelligence

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

synonym : brains, brightness, cleverness

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

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

AI

n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

synonym : robot, machine learning, neural network

(1) **AI** expert, (2) apply **AI** technology to art

The evolution of processors has dramatically improved the performance of **AI**.

influential

adj. having significant impact or power on someone or something

synonym : potent, significant, meaningful

(1) an **influential** newspaper, (2) an **influential** politician

Early childhood experiences are very **influential** for people.

develop

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

synonym: evolve, progress, advance

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

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

trend

- n.* a general direction in which something is changing or developing

synonym: direction, movement, tendency

- (1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

background

- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

- (1) a **background** color, (2) a criminal **background**

The company's hiring criteria emphasize personality, not a person's **background**.

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.

X-ray

- n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

synonym: roentgenogram, photon radiography

- (1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

paralegal

n. a person who is trained to perform legal work but is not a qualified lawyer; someone who assists lawyers in their work and helps with legal research and documents

synonym : legal assistant, legal secretary, lawyer's assistant

(1) **paralegal** assistant, (2) **paralegal** services

The law firm hired a team of **paralegals** to assist with the large volume of documents in the case.

pilot

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

synonym : aviator, flyer, chief

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

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

recommendation

n. an official suggestion that something is good or suitable for a particular purpose or job

synonym : guidance, advice, suggestion

(1) follow his **recommendations**, (2) a letter of **recommendation**

We made a **recommendation** to the client.

champion

n. someone who has won first place in a competition; someone who fights for a specific group of people or a belief

synonym : victor, winner, fighter

(1) a **champion** of peace, (2) the grand **champion**

The **champion** bicyclist outrode all his competitors.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

synonym : acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

embrace

v. to accept something willingly and enthusiastically;
(noun) the act of clasping another person in the arms as
in greeting or affection

synonym : grasp, hold tightly, accept

(1) **embrace** an opportunity, (2) a warm **embrace**

The woods **embrace** the house.

steer

v. to control the direction or movement of a vehicle; to
direct a course of action; to guide or motivate someone

synonym : guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

specify

v. to explain or state something clearly and exactly

synonym : establish, pinpoint, identify

(1) **specify** a cause, (2) **specify** an option

You can **specify** the font color by clicking the Color tab.

dimension

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

synonym : extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

chimpanzee

n. a small, very intelligent ape found in west and central
Africa with black or brown fur

synonym : ape, chimp, pan troglodytes

(1) **chimpanzee** behavior, (2) **chimpanzee** society

Many zoos have **chimpanzee** exhibits, allowing visitors to
observe these intelligent primates up close.

genius

n. someone who has exceptional intellectual ability and
originality

synonym : brilliance, brainiac, acumen

(1) a person of **genius**, (2) a **genius** for music

Mozart was a musical **genius**.

symphony

n. a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

synonym : orchestra, harmony, concert

(1) a **symphony** orchestra, (2) a beautiful **symphony**

The frequent performances of the **symphony** prove its popularity.

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym : apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

cognition

n. the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind

synonym : awareness, understanding, comprehension

(1) social **cognition**, (2) **cognition** disorder

The professor focused on the research of infant **cognition**.

deduce

v. to arrive at an answer, a conclusion, or a decision by reasoning

synonym : conclude, infer, suppose

(1) **deduce** facts from the evidence, (2) **deduce** the meaning of a word

The researcher **deduced** the momentum of the particles from meteoritic velocities.

emotional

adj. relating to people's feelings

synonym : affecting, impactful, impressive

(1) **emotional** health, (2) **emotional** distress

Human **emotional** responses vary widely depending on the

society to which they belong.

spatial

adj. of or relating space and the position, area, and size of things

synonym : dimensional, geographical

(1) **spatial** ability, (2) **spatial** distribution

He carefully determined the **spatial** relations of every piece of the stage set.

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.

strength

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

synonym : resilience, power, muscles

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

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

arrangement

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

synonym : placement, configuration, account

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

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

squirrel

n. a small to medium-sized rodent with a bushy tail, found in almost every part of the world

synonym : rodent, chipmunk, tree-dweller

(1) agile **squirrel**, (2) gray **squirrel**

The **squirrels** in the park were very friendly and came right up to us looking for food.

phenomenal

adj. extremely good or impressive; outstanding

synonym: extraordinary, remarkable, impressive

(1) **phenomenal** success, (2) **phenomenal** growth

The athlete's **phenomenal** performance broke all previous records.

bury

v. to place a dead body in the ground, grave, or tomb

synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

engineer

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

synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

cluster

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

synonym: group, aggregation, array

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

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

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.

calculator

n. a small electronic device for making arithmetic calculations

synonym: computer, machine, estimator

(1) **calculator** app, (2) analog **calculator**

I left my alpha **calculator** at home, so I had to borrow one from a classmate to finish my math homework.

arithmetic

n. the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

synonym: computation, calculation, math

(1) decimal **arithmetic**, (2) mental **arithmetic**

The abacus is an ancient counting device that was used for **arithmetic** calculations.

navigation

n. the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority

synonym: sailing, seafaring, pilotage

(1) **navigation** system, (2) visual **navigation**

The plane's **navigation** system had problems, which mechanics found.

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

distracted

adj. having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried

synonym: preoccupied, inattentive, absent-minded

(1) get **distracted** by an urgent matter, (2) **distracted** by a conversation

I was so **distracted** by my phone that I nearly walked into a lamppost.

stove

n. a kitchen appliance consisting of a flat top, usually with heating elements, used for cooking food

synonym: range, cooker, hotplate

(1) **stove** top, (2) hot **stove**

I made dinner on the **stove** using a pot and a pan.

finance

n. the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

synonym : banking, investment, fund

(1) **finance** act, (2) manage my **finances**

Our company decided to hire an advisor who specializes in **finance**.

advertise

v. to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

synonym : publicize, announce, promote

(1) **advertise** the campaign, (2) **advertise** on social media

We want to **advertise** our company through your media.

conscious

adj. being aware of and able to respond to what is happening around you

synonym : aware, cognizant, deliberate

(1) **conscious** effort, (2) **conscious** of having succeeded

He became **conscious** that he was being followed.

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**.

quantum

n. the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

alien

n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

synonym : foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

Alien species have drastically altered the ecosystem in this area.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym : motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

wealth

n. a large amount of money, property, or other things that someone or an organization owns

synonym : affluence, assets, fortunate

(1) majority of his **wealth**, (2) material **wealth**

The **wealth** inequality was unavoidable.

economy

n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

synonym : finance, trade, business

(1) **economy** of scale, (2) **economy** class

The **economy** of the country is struggling due to the recent political instability.

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.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

agriculture

n. the practice or science of cultivating the land or raising stock

synonym: farming, husbandry, agribusiness

(1) organic **agriculture**, (2) intensive **agriculture**

Agriculture is the foundation of our economy.

innovation

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

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

harness

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym: rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf
It was the **fossil** of a dinosaur tooth.

fuel *n.* a substance that is typically burned to generate heat or energy
synonym : energy, power, gas
(1) biomass **fuel**, (2) smokeless **fuel**
The **fuel** scarcity most severely impacted the manufacturing sector

highway *n.* a main road, especially one connecting major towns or cities
synonym : road, expressway, freeway
(1) **highway** system, (2) an interstate **highway**
I'm going to take the **highway** to get to my destination faster.

flick *v.* to make a sudden sharp movement or hit something quickly with a sharp movement
synonym : snap, tap, flip
(1) **flicker** candle, (2) **flick** through pages
He **flicked** the light switch, and the room was illuminated.

command *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
synonym : control, authority, leadership
(1) **command** and control, (2) **command** a battery
The general gave a **command** to his troops to prepare for battle.

horsepower *n.* a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time
synonym : HP, power, energy
(1) maximum **horsepower**, (2) engine **horsepower**

The company's new generator has a **horsepower** rating of 1000, making it ideal for large buildings.

skyscraper

n. a very tall building, typically one in a city

synonym: high-rise, tower

(1) **skyscraper** apartment house, (2) steel-framed **skyscraper**

The 50-floor **skyscraper** loomed over the city, dwarfing the other buildings.

churn

v. to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

synonym: stir, agitate, whirl

(1) **churn** out manufactured goods, (2) **churn** in my stomach

The cream needs to be **churned** for several minutes before it becomes butter.

refrigerator

n. an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment

synonym: fridge, cooler, icebox

(1) **refrigerator** magnet, (2) empty **refrigerator**

Don't forget to put the eggs in the **refrigerator** after you've used them.

distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym: broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

grid

n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical

power is distributed throughout a region

synonym: gridiron, battery grid, power system

(1) a **grid** design, (2) a wire **grid**

Grid pattern roads often appear in urban areas.

farmstead

n. a plot of land and the buildings on it that are used for farming and agricultural activities, typically includes a farmhouse, barn, and other structures necessary for farming operations

synonym: farmplace, farmhouse

(1) family-owned **farmstead**, (2) charming **farmstead**

The rural **farmstead** was a self-sufficient agricultural establishment with crops, livestock, and a farmhouse.

pump

v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

synonym: drain, inject, send

(1) **pump** a secret out of success, (2) **pump** blood throughout the body

He was alert and could not **pump** any critical information out of him.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

multiply

v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

synonym: boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold
Multiply a number by itself twice.

formula

n. a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement

synonym: expression, recipe, procedure

(1) structural **formula**, (2) a binomial **formula**

The teacher told the students to memorize the math **formula**.

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.

addition

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

synonym: accumulation, expansion, addendum

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

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

commodity

n. a product or a raw material that can be traded, bought, or sold

synonym: merchandise, goods, entity

(1) **commodity** tax, (2) international **commodity**

The government announced a policy to control the rise in **commodity** prices.

utility

n. the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public

synonym: usefulness, practicality, utility

(1) **utility** costs, (2) marginal **utility**

The **utility** of the device was immediately apparent to all who saw it.

start-up

n. a newly established company or business

(1) **start-up** business, (2) early-stage **start-up**

Our company's services are targeted at **start-up** executives.

embody

v. to represent or exemplify something; to give tangible form to an abstract idea

synonym: represent, exemplify, personify

(1) **embody** my goal, (2) **embody** a spirit of charity

The company's new products **embody** the values of innovation and sustainability.

bot

n. a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users

synonym: robot, droid, android

(1) spam **bot**, (2) **bot** detection

The translation **bot** helped me translate a website from another country.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

redefine

v. to change the meaning or interpretation of something; to make people think about something in a new or different way

synonym: reconsider, reformulate, alter

(1) **redefine** customer experience, (2) **redefine** our role

The video telephony application has **redefined** the way we work.

slew

v. to turn or slip abruptly and sharply; (past for of) slay;
(noun) a large number or amount or extent

synonym: slide, curve, (noun) heap

(1) **slew** around suddenly, (2) have a **slew** of ideas
He **slew** many Trojan warriors in this war.

engender

v. to make a feeling or situation exist; to cause or give rise to

synonym: beget, spawn, generate

(1) **engender** a crisis, (2) **engender** the trust

The discussion about war helps **engender** a sense of shared humanity.

automatic

adj. able to work or operate with little or no direct human control; independent of external control

synonym: mechanical, robotic, intuitive

(1) **automatic** operation, (2) the **automatic** shrinking of the pupils

In passenger aircraft, it is common to use an **automatic** pilot during cruising.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

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**.

conceptual

adj. related to or founded on ideas, principles

synonym: theoretical, abstract, ideational

(1) **conceptual** art, (2) new **conceptual** framework

He has absolutely no **conceptual** comprehension of maths.

productivity

n. the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time

synonym : efficiency, output, performance

(1) **productivity** growth, (2) improved **productivity**

She increased her **productivity** by planning out her tasks for the day.

inefficient

adj. lacking the ability or skill and not making the best use of time, money, energy, etc.

synonym : ineffective, counterproductive, inadequate

(1) **inefficient** use, (2) **inefficient** management

The system is still so **inefficient** that it is useless.

inherent

adj. existing in something as a permanent, essential, or characteristic attribute

synonym : intrinsic, natural, innate

(1) **inherent** risk, (2) have an **inherent** dislike

Honesty is an **inherent** quality that everyone should strive to possess.

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.

definition

n. a concise explanation of the meaning of a word, phrase, or symbol

synonym : description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

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.

exploration

n. the activity of searching and finding out about something through a place

synonym : inquiry, quest, investigation

(1) future of space **exploration**, (2) an Arctic **exploration**

He called for a careful **exploration** of the consequences.

inefficiency

n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive

synonym : ineffectiveness, inefficacy, inadequacy

(1) **inefficiency** in the system, (2) bureaucratic **inefficiency**

The company's **inefficiency** in handling customer requests led to many complaints.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym : productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

relation

n. the way two persons or groups of people feel and act toward one another

synonym : association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

gravitation

n. the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between

two or more objects due to their mass

synonym: attraction, pull, gravity

(1) terrestrial **gravitation**, (2) universal **gravitation**

The force of **gravitation** keeps the planets in our solar system in orbit around the sun.

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.

Session 2: Spelling

1. a beautiful sy____ny
n. a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
2. bureaucratic ine____ncy
n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive
3. dis____te wealth evenly
v. to give something to a large number of individuals, or to spread or furnish something
4. sma____ne app developer
n. a mobile phone that functions as a computer and connects to the Internet
5. musical ins____nts
n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
6. pa____al services
n. a person who is trained to perform legal work but is not a qualified lawyer; someone who assists lawyers in their work and helps with legal research and documents
7. unp____ble outcome
adj. not capable of being foreseen or calculated; not regular or certain
8. ha____s a horse to a carriage
v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 1. symphony, 2. inefficiency, 3. distribute, 4. smartphone, 5. instrument, 6. paralegal, 7. unpredictable, 8. harness

9. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
10. terrestrial gra_____on *n.* the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
11. v__y directly with the price *v.* to become different in terms of size, shape, etc.
12. 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
13. em_____al distress *adj.* relating to people's feelings
14. beam of el_____ons *n.* a tiny particle with the negative electrical charge
15. maximum hor_____er *n.* a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time
16. still on_____g *adj.* continuing to exist or develop, or currently happening
17. a letter of rec_____ion *n.* an official suggestion that something is good or suitable for a particular purpose or job
18. em_____al health *adj.* relating to people's feelings
19. sp_____y an option *v.* to explain or state something clearly and exactly
20. family-owned fa_____ad *n.* a plot of land and the buildings on it that are used for farming and agricultural activities, typically includes a farmhouse, barn, and other structures necessary for farming operations

ANSWERS: 9. intelligence, 10. gravitation, 11. vary, 12. prototype, 13. emotional, 14. electron, 15. horsepower, 16. ongoing, 17. recommendation, 18. emotional, 19. specify, 20. farmstead

21. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
22. st__r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
23. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
24. have a s__w of ideas *v.* to turn or slip abruptly and sharply; (past for of) slay; (noun) a large number or amount or extent
25. muscular st_____th *n.* the quality or state of being physically, or sometimes mentally, strong
26. manage my fi_____es *n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets
27. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
28. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
29. analog cal_____or *n.* a small electronic device for making arithmetic calculations

ANSWERS: 21. medical, 22. steer, 23. chemistry, 24. slew, 25. strength, 26. finance, 27. revolution, 28. specific, 29. calculator

30. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
31. dis_____ed by a conversation *adj.* having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
32. ine_____le changes of the seasons *adj.* certain to happen and unavoidable
33. ur_____y in the use of force *n.* the quality of being very important and needing to be dealt with immediately
34. app_____te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
35. sp_____l ability *adj.* of or relating space and the position, area, and size of things
36. nav_____on system *n.* the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority
37. apply AI technology to art *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
38. re_____on of inclusion *n.* the way two persons or groups of people feel and act toward one another

ANSWERS: 30. cluster, 31. distracted, 32. inevitable, 33. urgency, 34. appreciate, 35. spatial, 36. navigation, 37. AI, 38. relation

39. new con_____al framework *adj.* related to or founded on ideas, principles
40. ine_____nt use *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
41. improve co_____ve function *adj.* of or relating to mental processes of understanding
42. a warm em_____e *v.* to accept something willingly and enthusiastically; (noun) the act of clasping another person in the arms as in greeting or affection
43. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
44. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
45. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
46. ine_____nt management *adj.* lacking the ability or skill and not making the best use of time, money, energy, etc.
47. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 39. conceptual, 40. inefficient, 41. cognitive, 42. embrace, 43. invention, 44. engineer, 45. chemistry, 46. inefficient, 47. develop

- | | |
|---------------------------------------|---|
| 48. ch__f accountant | <i>adj.</i> most important or primary; (noun) a person who is in charge |
| 49. smokeless f__l | <i>n.</i> a substance that is typically burned to generate heat or energy |
| 50. the tr__d away from television | <i>n.</i> a general direction in which something is changing or developing |
| 51. new di_____on | <i>n.</i> a measurable extent of a particular kind, such as width, height, or length |
| 52. co_____on disorder | <i>n.</i> the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind |
| 53. el_____fy a manufacturing process | <i>v.</i> to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something |
| 54. a me_____l opinion | <i>adj.</i> relating to the treatment of illness or injuries; relating to the practice of medicine |
| 55. ine_____ncy in the system | <i>n.</i> the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive |
| 56. an Arctic exp_____on | <i>n.</i> the activity of searching and finding out about something through a place |
| 57. a bu__h of schoolgirls | <i>n.</i> a grouping of several similar things which are growing or fastened together |
| 58. early pr_____pe | <i>n.</i> a first or preliminary example of something such as a device or vehicle from which other forms are developed |

ANSWERS: 48. chief, 49. fuel, 50. trend, 51. dimension, 52. cognition, 53. electrify, 54. medical, 55. inefficiency, 56. exploration, 57. bunch, 58. prototype

59. a cl____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
60. ut____y costs *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
61. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
62. pi__t production *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
63. get dis____ed by an urgent matter *adj.* having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
64. fi____e act *n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets
65. have an in____nt dislike *adj.* existing in something as a permanent, essential, or characteristic attribute
66. ec____y class *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

ANSWERS: 59. cluster, 60. utility, 61. addition, 62. pilot, 63. distracted, 64. finance, 65. inherent, 66. economy

67. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
68. em_____e an opportunity *v.* to accept something willingly and enthusiastically; (noun) the act of claspng another person in the arms as in greeting or affection
69. social co_____on *n.* the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind
70. an international tr__d *n.* a general direction in which something is changing or developing
71. ch__f events of the year *adj.* most important or primary; (noun) a person who is in charge
72. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
73. fl__k through pages *v.* to make a sudden sharp movement or hit something quickly with a sharp movement
74. marginal ut____y *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
75. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

ANSWERS: 67. definition, 68. embrace, 69. cognition, 70. trend, 71. chief, 72. define, 73. flick, 74. utility, 75. efficient

76. arr_____nt committee *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
77. nontechnical as___ts of the job *n.* one part or feature of a situation, problem, subject, etc.
78. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
79. laws of ph_____s *n.* the science of matter and energy and their interactions
80. engine hor_____er *n.* a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time
81. co_____d a battery *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
82. co_____us effort *adj.* being aware of and able to respond to what is happening around you
83. a ge___s for music *n.* someone who has exceptional intellectual ability and originality
84. a person of ge___s *n.* someone who has exceptional intellectual ability and originality
85. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.

ANSWERS: 76. arrangement, 77. aspect, 78. electrify, 79. physics, 80. horsepower, 81. command, 82. conscious, 83. genius, 84. genius, 85. aspect

86. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
87. nuclear ph____s *n.* the science of matter and energy and their interactions
88. de___e facts from the evidence *v.* to arrive at an answer, a conclusion, or a decision by reasoning
89. va___y bottom *n.* a long depression on the surface of the land, which typically contains a river
90. phe_____al growth *adj.* extremely good or impressive; outstanding
91. early-stage st____up *n.* a newly established company or business
92. pa_____al assistant *n.* a person who is trained to perform legal work but is not a qualified lawyer; someone who assists lawyers in their work and helps with legal research and documents
93. hi_____y system *n.* a main road, especially one connecting major towns or cities
94. a binomial fo_____a *n.* a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
95. cal_____or app *n.* a small electronic device for making arithmetic calculations
96. pro_____ity growth *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time

ANSWERS: 86. addition, 87. physics, 88. deduce, 89. valley, 90. phenomenal, 91. start-up, 92. paralegal, 93. highway, 94. formula, 95. calculator, 96. productivity

97. pre_____le pattern *adj.* capable of being known, seen or declared in advance
98. ref_____tor magnet *n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
99. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
100. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
101. X-__y scan *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
102. fl__ker candle *v.* to make a sudden sharp movement or hit something quickly with a sharp movement
103. gray sq_____el *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world
104. ch__n in my stomach *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

ANSWERS: 97. predictable, 98. refrigerator, 99. develop, 100. feat, 101. X-ray, 102. flick, 103. squirrel, 104. churn

105. material we___h *n.* a large amount of money, property, or other things that someone or an organization owns
106. intensive agr____re *n.* the practice or science of cultivating the land or raising stock
107. p__p blood throughout the body *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
108. a g__d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
109. de___e the meaning of a word *v.* to arrive at an answer, a conclusion, or a decision by reasoning
110. pro____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
111. p__p a secret out of success *v.* to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities
112. biomass f__l *n.* a substance that is typically burned to generate heat or energy
113. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
114. visual nav____on *n.* the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority

ANSWERS: 105. wealth, 106. agriculture, 107. pump, 108. grid, 109. deduce, 110. progression, 111. pump, 112. fuel, 113. define, 114. navigation

115. st____up business *n.* a newly established company or business
116. co____d and control *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
117. sp____l distribution *adj.* of or relating space and the position, area, and size of things
118. sp____y a cause *v.* to explain or state something clearly and exactly
119. better fuel eff____cy *n.* the state or quality of doing something well with no waste of input such as time or money
120. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
121. sma____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
122. b__y in the earth *v.* to place a dead body in the ground, grave, or tomb
123. empty ref____tor *n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
124. inn____on leader *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 115. start-up, 116. command, 117. spatial, 118. specify, 119. efficiency, 120. bunch, 121. smartphone, 122. bury, 123. refrigerator, 124. innovation

125. structural fo____a *n.* a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
126. ad_____se on social media *v.* to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
127. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
128. research on co_____ve psychology *adj.* of or relating to mental processes of understanding
129. in a pre_____le manner *adj.* capable of being known, seen or declared in advance
130. di_____se the problem *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
131. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
132. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation
133. a ch_____on of peace *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
134. en_____er a crisis *v.* to make a feeling or situation exist; to cause or give rise to
135. universal gra_____on *n.* the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass

ANSWERS: 125. formula, 126. advertise, 127. steer, 128. cognitive, 129. predictable, 130. diagnose, 131. progression, 132. innovation, 133. champion, 134. engender, 135. gravitation

136. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
137. arr_____nt of the furniture *n.* a plan or preparation for the future event; the action or process of placing things in a particular order
138. phe_____al success *adj.* extremely good or impressive; outstanding
139. hot st__e *n.* a kitchen appliance consisting of a flat top, usually with heating elements, used for cooking food
140. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
141. burning of fo___l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
142. resident al__ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
143. co_____ty tax *n.* a product or a raw material that can be traded, bought, or sold
144. tec_____cal policy *adj.* based on scientific and industrial progress
145. a wire g__d *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 136. alien, 137. arrangement, 138. phenomenal, 139. stove, 140. invention, 141. fossil, 142. alien, 143. commodity, 144. technological, 145. grid

146. put a ha_____s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
147. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
148. en_____er the trust *v.* to make a feeling or situation exist; to cause or give rise to
149. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
150. an interstate hi_____y *n.* a main road, especially one connecting major towns or cities
151. future of space exp_____on *n.* the activity of searching and finding out about something through a place
152. dis_____te video content *v.* to give something to a large number of individuals, or to spread or furnish something
153. ch__n out manufactured goods *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover
154. an air-cooled en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

ANSWERS: 146. harness, 147. dimension, 148. engender, 149. experiment, 150. highway, 151. exploration, 152. distribute, 153. churn, 154. engine

155. st____th of the economy *n.* the quality or state of being physically, or sometimes mentally, strong
156. spam b_t *n.* a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
157. chi_____ee behavior *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
158. beginning of the industrial rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
159. improved pro_____ity *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
160. mental ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
161. mu_____ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
162. decimal ari_____ic *n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division

ANSWERS: 155. strength, 156. bot, 157. chimpanzee, 158. revolution, 159. productivity, 160. arithmetic, 161. multiply, 162. arithmetic

163. re_____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
164. ec_____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
165. organic agr_____re *n.* the practice or science of cultivating the land or raising stock
166. probabilistic qu_____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
167. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
168. agile sq_____el *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world
169. sky_____er apartment house *n.* a very tall building, typically one in a city
170. the grand ch_____on *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
171. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
172. s__w around suddenly *v.* to turn or slip abruptly and sharply; (past for of) slay; (noun) a large number or amount or extent

ANSWERS: 163. relation, 164. economy, 165. agriculture, 166. quantum, 167. industrial, 168. squirrel, 169. skyscraper, 170. champion, 171. fossil, 172. slew

183. the attraction of gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
184. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
185. a sy_____ny orchestra *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
186. charming fa_____ad *n.* a plot of land and the buildings on it that are used for farming and agricultural activities, typically includes a farmhouse, barn, and other structures necessary for farming operations
187. in_____nt risk *adj.* existing in something as a permanent, essential, or characteristic attribute
188. AI expert *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
189. em___y a spirit of charity *v.* to represent or exemplify something; to give tangible form to an abstract idea
190. l__n athletic figure *adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

ANSWERS: 183. gravity, 184. definition, 185. symphony, 186. farmstead, 187. inherent, 188. AI, 189. embody, 190. lean

191. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
192. laws of qu_____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
193. b__y emotion *v.* to place a dead body in the ground, grave, or tomb
194. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
195. maintain do_____rd compatibility *adj.* moving towards a lower position or a lower level
196. re_____ne our role *v.* to change the meaning or interpretation of something; to make people think about something in a new or different way
197. an inf_____al politician *adj.* having significant impact or power on someone or something
198. on_____g support *adj.* continuing to exist or develop, or currently happening
199. preserve my gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
200. re_____ne customer experience *v.* to change the meaning or interpretation of something; to make people think about something in a new or different way

ANSWERS: 191. efficient, 192. quantum, 193. bury, 194. feat, 195. downward, 196. redefine, 197. influential, 198. ongoing, 199. gravity, 200. redefine

201. tec_____cal advancement *adj.* based on scientific and industrial progress
202. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
203. the au_____ic shrinking of the pupils *adj.* able to work or operate with little or no direct human control; independent of external control
204. ine_____le result *adj.* certain to happen and unavoidable
205. a do_____rd slope *adj.* moving towards a lower position or a lower level
206. au_____ic operation *adj.* able to work or operate with little or no direct human control; independent of external control
207. matter of ur_____y *n.* the quality of being very important and needing to be dealt with immediately
208. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
209. flow of el_____ons *n.* a tiny particle with the negative electrical charge
210. majority of his we____h *n.* a large amount of money, property, or other things that someone or an organization owns
211. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 201. technological, 202. background, 203. automatic, 204. inevitable, 205. downward, 206. automatic, 207. urgency, 208. efficiency, 209. electron, 210. wealth, 211. intelligence

212. ind_____al alcohol	<i>adj.</i> of or relating to or resulting from industry
213. con_____al art	<i>adj.</i> related to or founded on ideas, principles
214. b_t detection	<i>n.</i> a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
215. series of exp_____nts	<i>n.</i> the scientific test conducted to observe what happens and gain new knowledge
216. di_____se with CT scans	<i>v.</i> to determine or distinguish the nature of a problem or an illness through a careful analysis
217. co_____us of having succeeded	<i>adj.</i> being aware of and able to respond to what is happening around you
218. an inf_____al newspaper	<i>adj.</i> having significant impact or power on someone or something
219. ad_____se the campaign	<i>v.</i> to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it
220. steel-framed sky_____er	<i>n.</i> a very tall building, typically one in a city
221. surgical ins_____nts	<i>n.</i> an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 212. industrial, 213. conceptual, 214. bot, 215. experiment, 216. diagnose, 217. conscious, 218. influential, 219. advertise, 220. skyscraper, 221. instrument

222. dangerously unp_____ble person *adj.* not capable of being foreseen or calculated; not regular or certain
223. v__y according to the age *v.* to become different in terms of size, shape, etc.
224. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
225. st__e top *n.* a kitchen appliance consisting of a flat top, usually with heating elements, used for cooking food
226. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
227. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
228. em___y my goal *v.* to represent or exemplify something; to give tangible form to an abstract idea

ANSWERS: 222. unpredictable, 223. vary, 224. specific, 225. stove, 226. engineer, 227. background, 228. embody

Session 3: Fill in the Blanks

1. The government announced a policy to control the rise in _____ prices.
n. a product or a raw material that can be traded, bought, or sold
2. This electronic _____ is required to undergo periodic inspections to ensure precision.
n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
3. The teacher told the students to memorize the math _____.
n. a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
4. In passenger aircraft, it is common to use an _____ pilot during cruising.
adj. able to work or operate with little or no direct human control; independent of external control
5. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length
6. The policies he announces can be the _____ of economic growth in the country.
n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
7. The new prime minister has vowed to take measures against the _____ economic crisis.
adj. continuing to exist or develop, or currently happening

ANSWERS: 1. commodity, 2. instrument, 3. formula, 4. automatic, 5. dimensions, 6. engine, 7. ongoing

8. As a first _____ we agreed to meet the following Friday.
n. a plan or preparation for the future event; the action or process of placing things in a particular order
9. 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
10. Many zoos have _____ exhibits, allowing visitors to observe these intelligent primates up close.
n. a small, very intelligent ape found in west and central Africa with black or brown fur
11. _____ is the foundation of our economy.
n. the practice or science of cultivating the land or raising stock
12. Honesty is an _____ quality that everyone should strive to possess.
adj. existing in something as a permanent, essential, or characteristic attribute
13. The professor focused on the research of infant _____.
n. the psychological process of perception and learning and reasoning; the mental action or process by which knowledge and understanding are developed in the mind
14. The company's new products _____ the values of innovation and sustainability.
v. to represent or exemplify something; to give tangible form to an abstract idea
15. The general gave a _____ to his troops to prepare for battle.
n. authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

ANSWERS: 8. arrangement, 9. progression, 10. chimpanzee, 11. Agriculture, 12. inherent, 13. cognition, 14. embody, 15. command

16. A _____ of grapes hung from the vine.
- n.* a group of similar things or people close together, often forming a distinct mass or unit
17. The rural _____ was a self-sufficient agricultural establishment with crops, livestock, and a farmhouse.
- n.* a plot of land and the buildings on it that are used for farming and agricultural activities, typically includes a farmhouse, barn, and other structures necessary for farming operations
18. The abacus is an ancient counting device that was used for _____ calculations.
- n.* the branch of mathematics that deals with numbers and numerical calculations, particularly the four basic operations of addition, subtraction, multiplication, and division
19. The translation ____ helped me translate a website from another country.
- n.* a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
20. His professional experience includes all _____ of media production.
- n.* one part or feature of a situation, problem, subject, etc.
21. Parallel lines are, by _____ lines on the same plane that never cross.
- n.* a concise explanation of the meaning of a word, phrase, or symbol
22. The _____ scarcity most severely impacted the manufacturing sector
- n.* a substance that is typically burned to generate heat or energy

ANSWERS: 16. cluster, 17. farmstead, 18. arithmetic, 19. bot, 20. aspects, 21. definition, 22. fuel

23. We made a _____ to the client.

- n.* an official suggestion that something is good or suitable for a particular purpose or job

24. The law firm hired a team of _____ to assist with the large volume of documents in the case.

- n.* a person who is trained to perform legal work but is not a qualified lawyer; someone who assists lawyers in their work and helps with legal research and documents

25. I made dinner on the _____ using a pot and a pan.

- n.* a kitchen appliance consisting of a flat top, usually with heating elements, used for cooking food

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 new washing machine is much more _____ than the old one.

- adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

28. The _____ of the device was immediately apparent to all who saw it.

- n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public

29. His estate was _____ to his sons.

- v.* to give something to a large number of individuals, or to spread or furnish something

ANSWERS: 23. recommendation, 24. paralegals, 25. stove, 26. diagnose, 27. efficient, 28. utility, 29. distributed

30. The doctor ordered an _____ to see if there was any damage to the bones.
- n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
31. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
32. People have been exploring ways to _____ natural forces and resources since ancient times.
- v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
33. The industrial _____ laws were passed with little to no alteration.
- n.* the way two persons or groups of people feel and act toward one another
34. The outermost _____ shell determines the chemical properties of an atom.
- n.* a tiny particle with the negative electrical charge
35. It was the _____ of a dinosaur tooth.
- n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
36. She departed hurriedly because of some significant _____ in their affairs.
- n.* the quality of being very important and needing to be dealt with immediately
37. The _____ in the park were very friendly and came right up to us looking for food.
- n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world

ANSWERS: 30. X-ray, 31. invention, 32. harness, 33. relations, 34. electron, 35. fossil, 36. urgency, 37. squirrels

38. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
39. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;
40. He became _____ that he was being followed.
adj. being aware of and able to respond to what is happening around you
41. The plane's _____ system had problems, which mechanics found.
n. the act of directing a ship or airplane from place to place; advice or information intended to resolve a problem or challenge, especially as given by someone in authority
42. In times of recession, an increase in unemployment is _____.
adj. certain to happen and unavoidable
43. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
n. a notable or impressive achievement, especially one that requires great skill or bravery
44. The force of _____ keeps the planets in our solar system in orbit around the sun.
n. the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
45. _____ species have drastically altered the ecosystem in this area.
n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

ANSWERS: 38. experiments, 39. revolution, 40. conscious, 41. navigation, 42. inevitable, 43. feat, 44. gravitation, 45. Alien

46. He carefully determined the _____ relations of every piece of the stage set.
adj. of or relating space and the position, area, and size of things
47. The _____ inequality was unavoidable.
n. a large amount of money, property, or other things that someone or an organization owns
48. The video telephony application has _____ the way we work.
v. to change the meaning or interpretation of something; to make people think about something in a new or different way
49. I left my alpha _____ at home, so I had to borrow one from a classmate to finish my math homework.
n. a small electronic device for making arithmetic calculations
50. _____ a number by itself twice.
v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
51. The _____ had received a mild snowfall the previous week.
n. a long depression on the surface of the land, which typically contains a river
52. Our company's services are targeted at _____ executives.
n. a newly established company or business
53. 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

ANSWERS: 46. spatial, 47. wealth, 48. redefined, 49. calculator, 50. Multiply, 51. valley, 52. start-up, 53. efficiency

54. He called for a careful _____ of the consequences.
n. the activity of searching and finding out about something through a place
55. Mining is a _____ source of income for the country.
adj. most important or primary; (noun) a person who is in charge
56. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
57. We must _____ a new system to streamline our workflow and increase efficiency.
v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
58. The athlete's _____ performance broke all previous records.
adj. extremely good or impressive; outstanding
59. The oil price continued their downward _____.
n. a general direction in which something is changing or developing
60. We would _____ an early reply.
v. to value and acknowledge the worth of someone or something; to be grateful for something or someone
61. He was alert and could not _____ any critical information out of him.
v. to cause water, air, gas, etc. to move from one place to another by using mechanical equipment; to get or supply something such as money, information, etc. in significant quantities

ANSWERS: 54. exploration, 55. chief, 56. Technological, 57. develop, 58. phenomenal, 59. trend, 60. appreciate, 61. pump

62. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet
63. The evolution of processors has dramatically improved the performance of ____.
- n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
64. There is plenty of space to _____ everyone.
- v.* to place a dead body in the ground, grave, or tomb
65. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
66. The woods _____ the house.
- v.* to accept something willingly and enthusiastically; (noun) the act of clasping another person in the arms as in greeting or affection
67. I was so _____ by my phone that I nearly walked into a lamppost.
- adj.* having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
68. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 62. smartphones, 63. AI, 64. bury, 65. engineer, 66. embrace, 67. distracted, 68. innovation

69. 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

70. The company's _____ in handling customer requests led to many complaints.

n. the lack of ability or effectiveness in producing the desired results or outcomes; the quality of being wasteful or unproductive

71. Maximum heart rates _____ a lot for each individual.

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

72. His _____ faculties were getting worse because of a lack of sleep.

adj. of or relating to mental processes of understanding

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

adj. of or relating to or resulting from industry

74. Big techs are now eager to develop _____ computers.

n. the smallest amount or unit of something, especially (electromagnetic) energy

75. The frequent performances of the _____ prove its popularity.

n. a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

76. Early childhood experiences are very _____ for people.

adj. having significant impact or power on someone or something

ANSWERS: 69. specific, 70. inefficiency, 71. vary, 72. cognitive, 73. Industrial, 74. quantum, 75. symphony, 76. influential

77. The system is still so _____ that it is useless.

adj. lacking the ability or skill and not making the best use of time, money, energy, etc.

78. The product developed through years of research continues to _____ the market.

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

79. The 50-floor _____ loomed over the city, dwarfing the other buildings.

n. a very tall building, typically one in a city

80. The astronaut felt weightless in space due to the absence of _____.

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

81. I'm going to take the _____ to get to my destination faster.

n. a main road, especially one connecting major towns or cities

82. You can _____ the font color by clicking the Color tab.

v. to explain or state something clearly and exactly

83. Health and _____ are, above all, gold.

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

84. We want to _____ our company through your media.

v. to draw attention to something such as a product, service, or event in public to encourage people to buy, use, or attend it

ANSWERS: 77. inefficient, 78. electrify, 79. skyscraper, 80. gravity, 81. highway, 82. specify, 83. strength, 84. advertise

85. The weather in this region is often _____ with sudden rainstorms and strong winds.
adj. not capable of being foreseen or calculated; not regular or certain
86. The stock market has been in a _____ trend for the past month.
adj. moving towards a lower position or a lower level
87. She increased her _____ by planning out her tasks for the day.
n. the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
88. He has absolutely no _____ comprehension of maths.
adj. related to or founded on ideas, principles
89. _____ pattern roads often appear in urban areas.
n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
90. The captain told him to _____ the ship north.
v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
91. He is familiar with _____ and biology.
n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions
92. Human _____ responses vary widely depending on the society to which they belong.
adj. relating to people's feelings

ANSWERS: 85. unpredictable, 86. downward, 87. productivity, 88. conceptual, 89. Grid, 90. steer, 91. chemistry, 92. emotional

93. The cream needs to be _____ for several minutes before it becomes butter.
- v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover
94. 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
95. Don't forget to put the eggs in the _____ after you've used them.
- n.* an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
96. _____ operational improvements often lead to better environmental performance.
- adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture
97. The company's hiring criteria emphasize personality, not a person's _____.
- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
98. The discussion about war helps _____ a sense of shared humanity.
- v.* to make a feeling or situation exist; to cause or give rise to
99. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 93. churned, 94. prototype, 95. refrigerator, 96. Lean, 97. background, 98. engender, 99. addition,

100. In terms of _____ he was head and shoulders above his classmates.
n. the ability to learn, comprehend, or make judgments or conclusions based on reasons
101. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something
102. The _____ of the country is struggling due to the recent political instability.
n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
103. 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
104. Mozart was a musical _____.
n. someone who has exceptional intellectual ability and originality
105. One bad apple spoils the whole _____.
n. a grouping of several similar things which are growing or fastened together
106. The economy becomes more volatile and less _____.
adj. capable of being known, seen or declared in advance
107. He _____ the light switch, and the room was illuminated.
v. to make a sudden sharp movement or hit something quickly with a sharp movement

ANSWERS: 100. intelligence, 101. define, 102. economy, 103. medical, 104. genius, 105. bunch, 106. predictable, 107. flicked

108. The company's new generator has a _____ rating of 1000, making it ideal for large buildings.

- n.* a unit of power used to measure the output of mechanical engines, specifically the amount of work that one horse can do in a set amount of time

109. He studied the _____ of radiation.

- n.* the science of matter and energy and their interactions

110. He _____ many Trojan warriors in this war.

- v.* to turn or slip abruptly and sharply; (past for of) slay; (noun) a large number or amount or extent

111. The _____ bicyclist outrode all his competitors.

- n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief

112. The _____ exercised great care in landing.

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

113. Our company decided to hire an advisor who specializes in _____.

- n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

114. The researcher _____ the momentum of the particles from meteoritic velocities.

- v.* to arrive at an answer, a conclusion, or a decision by reasoning

ANSWERS: 108. horsepower, 109. physics, 110. slew, 111. champion, 112. pilot, 113. finance, 114. deduced