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Vocabulary Builder Reference from...

Sougwen Chung: Why I draw with robots | TED Talk
https://www.ted.com/talks/sougwen_chung_why_i_drawing_with_robots

All Words

IMPORTANT

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Session 1: Word List

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

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him
Babies heavily **rely** on others for food.

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.

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.

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

traditionally

adv. in accordance with tradition; typically or commonly done in a particular way

synonym : conventionally, commonly, generally

(1) **traditionally** accepted concept, (2) **traditionally** sung at a banquet

Traditionally, the ceremony was held outdoors.

desire

n. a strong feeling of wanting to have or do something

synonym : ambition, appetite, greed

(1) unsatisfied **desire**, (2) fleshly **desire**

Low sexual **desire** typically correlates with low testosterone levels.

precision

n. the quality or condition of being exact and accurate

synonym : accuracy, exactness, rigor

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

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

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**.

explore

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

synonym : analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

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**.

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.

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.

emerging

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

synonym : arising, occurring, state-of-the-art

(1) **emerging** country, (2) **emerging** technologies

Emerging technologies have dramatically improved

productivity in various industries.

lifelong

adj. lasting for the whole of someone's life

synonym : enduring, eternal, permanent

(1) **lifelong** career, (2) **lifelong** commitment

He had a **lifelong** love of reading and spent hours daily with a book.

fascination

n. the state of being intensely interested in someone or something, or a powerful attraction

synonym : allure, attraction, charm

(1) rapt in **fascination**, (2) the **fascination** with classical music

I looked at the painting in **fascination**.

dynamics

n. the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

synonym : mechanics, kinetics, kinematics

(1) **dynamics** of group, (2) **dynamics** of economy

The relationship **dynamics** between the two countries were complex and constantly changing.

individual

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

synonym : person, being, self

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

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

messy

adj. disorganized and untidy

synonym : cluttered, disorganized, untidy

(1) **messy** data, (2) **messy** handling

His **messy** bedroom is always a source of frustration for his mother.

entail

v. to involve or require something as necessary, particularly as a consequence of a particular situation or action; to impose a burden or restriction on something

synonym : involve, necessitate, require

(1) **entail** legal consequences, (2) **entail** risks

The job offer **entails** a lot of responsibility and hard work.

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.

sensory

adj. of or relating to the physical senses

synonym : receptive, sensuous, neural

(1) a **sensory** organ, (2) a child with **sensory** issues

Sharks have highly developed **sensory** systems and are extremely sensitive creatures.

philosophy

n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

synonym : doctrine, attitude, creed

(1) **philosophy** of education, (2) western **philosophy**

Ethics is a branch of **philosophy**.

intersect

v. to meet or cross one another

synonym : cross, bisect, cut

(1) **intersect** at a point, (2) railways **intersect** the country

Her multidisciplinary works **intersect** music and picture with writing.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym : rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

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.

imperfectly

adv. in a faulty or incomplete way

synonym: amiss, insufficiently, clumsily

(1) **imperfectly** developed, (2) **imperfectly** known disease

He created an **imperfectly** shaped torso.

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.

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

synonym: custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

visual

adj. relating to seeing or sight

synonym: optical, graphical, visible

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

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

collaboration

n. the act or situation of working together to create or produce something

synonym: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

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.

drawing

n. the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material

synonym : sketch, depiction, illustration

(1) technical **drawing**, (2) **drawing** for design

She is talented at **drawing** and has won several awards for her artwork.

operate

v. to work in a particular way; to supervise something

synonym : work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

generation

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

synonym : cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

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.

gesture

n. a movement of the hands, head, or face that express a particular meaning

synonym : motion, expression, gesticulation

(1) **gesture** of goodwill, (2) hand **gesture**

She made a facial **gesture** to express disagreement.

premise

n. a statement or proposition that is held to be true or from which a conclusion can be drawn

synonym : assumption, postulate, supposition

(1) the major **premise**, (2) make a **premise**

The book's **premise** is that the main character must save the world from an impending disaster.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym : mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

sparse

adj. only in small quantities or numbers and often spread over a wide area

synonym : scarce, exiguous, infrequent

(1) a **sparse** population, (2) **sparse** snowfall

There is a **sparse** area between galaxies.

palm

n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family *Palmae* having an unbranched trunk crowned by large pinnate or palmate leaves

synonym: hand, fist

(1) the **palm** side of the forearm, (2) coconut **palm** trees

This high-performance camera is compact enough to fit in the **palm** of your hand.

sweat

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

synonym: perspiration, steam, hardwork

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

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

servo

n. a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications

synonym: actuator, motor, controller

(1) analog **servo**, (2) **servo** controller

A **servo** motor controlled the robot's movements.

anticipate

v. to expect or predict that something will happen; to tell in advance

synonym: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym: elementary, naive, rudimental

(1) **primitive** society, (2) artifact of a **primitive** humankind

The industry in this country is still **primitive**.

simulate

v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

synonym : pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario
He had painted the wood to **simulate** stone.

pixel

n. the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

synonym : dot, point, picture element

(1) **pixel** density, (2) color **pixels**

The computer screen comprises thousands of tiny **pixels** that create the overall picture.

slide

v. to move or cause to move smoothly along a surface without interruption

synonym : glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

punctuate

v. to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically

synonym : emphasize, accent, mark

(1) **punctuate** a sentence, (2) **punctuate** his talk

Strikes had also **punctuated** the preceding weeks.

falter

v. to hesitate or stumble in action or speech; to lose strength or momentum; to become unsteady or shaky

synonym : hesitate, stumble, waver

(1) **falter** in decision-making, (2) **falter** in speech

My confidence began to **falter** as I gave my presentation in front of the class.

pristine

adj. new and completely free from dirt or contamination

synonym : chaste, pure, immaculate

(1) **pristine** beach, (2) maintain the **pristine** condition
It is terrific to camp in **pristine** nature.

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym : decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

adapt

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

synonym : adjust, acclimate, accustom

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

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

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym : dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

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.

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.

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.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

extract

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

synonym: excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

digital

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

synonym: numerical, computerized, cyber

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

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

analog

adj. relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

(1) an **analog** watch, (2) digitization of **analog** sounds

Mercury thermometers are a type of **analog** sensor.

neural

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

synonym: sensory, neuron, nervous

(1) **neural** stem cells, (2) **neural** networks in AI

There was a disturbance of **neural** function.

recurring

adj. happening or occurring again periodically or repeatedly
synonym : periodic, constant, frequent

(1) **recurring** payments, (2) **recurring** decimals

A **recurring** back pain interfered with his concentration.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym : program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

painstaking

adj. cautious and correct, and requiring a significant amount of effort

synonym : detailed, meticulous, conscientious

(1) **painstaking** research, (2) a **painstaking** student

The training of a hawk was a **painstaking** process.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern

synonym : incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

sketch

n. a simple, quickly-made picture that does not have many details; a short descriptive summary of something

synonym : drawing, outline, blueprint

(1) a penciled **sketch**, (2) first design **sketches**

Yesterday, I created a rough **sketch** of the plan.

architecture

n. the art and science of designing and constructing buildings

synonym : design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

fundamental

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

synonym : basic, essential, entire

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

Human behavior has **fundamental** characteristics.

malleable

adj. able to be easily shaped, molded, or manipulated, particularly in a physical or metaphorical sense; capable of being adapted or changed according to different circumstances or situations

synonym : flexible, adaptable, pliable

(1) **malleable** clay, (2) **malleable** attitude

Gold is a **malleable** metal that can be easily shaped into different forms.

omnipotent

adj. having unlimited power or authority; able to do anything or control everything

synonym : all-powerful, supreme, almighty

(1) **omnipotent** ruler, (2) feeling **omnipotent**

The company's CEO was seen as **omnipotent**, making all major decisions without consulting anyone.

interactive

adj. acting reciprocally; mutually responsive

synonym : reciprocal, responsive, mutual

(1) **interactive** experience, (2) an **interactive** device

The new video game has an **interactive** storyline that allows

players to make choices that affect the game's outcome.

function

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

synonym : purpose, mapping, job

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

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

nonhuman

adj. not human; belonging to or characteristic of animals or things rather than people

synonym : inhuman, animal, artificial

(1) **nonhuman** species, (2) **nonhuman** intelligence

The experiment was conducted on **nonhuman** primates.

collaborate

v. to work with someone else to produce or achieve something

synonym : cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

brain

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

synonym : intellect, mind, encephalon

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

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

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym : boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film producers.

surveillance

n. the act of carefully monitoring a person suspected of a crime or a place where a crime may be committed or expected

synonym : administration, overseeing, control

(1) he is kept under **surveillance**, (2) **surveillance** cameras
The novel contains a criticism of the **surveillance** society.

gaze

v. to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else

synonym : stare, gawk, look

(1) **gaze** steadily at his face, (2) **gaze** absently out a window
The youngster was **gazed** at by the beast.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**
Driving is difficult for me because of my poor **vision**.

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.

publicly

adv. in a manner accessible to or observable by the public; by the government

synonym : candidly, openly, honestly

(1) **publicly** accessible record, (2) **publicly** financed schools

She **publicly** denounced the government's mishandling of the economic crisis.

urban

adj. relating to or located in a town or city

synonym : metropolitan, civic

(1) **urban** planning, (2) **urban** property owners

Only a small number of **urban** utilities offer sanitation services.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym : motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

technique

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

synonym : approach, procedure, strategy

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

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

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

analyze

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

synonym : explore, examine, investigate

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

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

density

n. the quality of compactness of a substance

synonym : tightness, viscosity

(1) population **density**, (2) higher pixel **density**

Do you know the **density** of the population in Hong Kong?

dwell

v. to live or reside in a particular place; to think, speak, or write at length on a particular subject; to linger or remain as if unwilling to leave

synonym : reside, inhabit, occupy

(1) **dwell** on a problem, (2) **dwell** on the past

I love to **dwell** in nature and feel its calming effects on me.

velocity

n. the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

synonym : speed, rapidity, swiftness

(1) initial **velocity**, (2) high **velocity**

The **velocity** of the car was too fast for the road conditions.

posit

v. to suggest or accept something as fact or as a basis for argument or consideration

synonym : assert, declare, assume

(1) **posit** the existence of life after death, (2) **posit** the premise

We should **posit** several hypotheses to discuss the matter.

many-to-many

adj. describes a communication or information exchange system in which multiple senders can communicate with multiple receivers, creating a decentralized and collaborative network

synonym : multilateral, reciprocal, mutual

(1) **many-to-many** network, (2) **many-to-many** relationship

The new social media platform allows for **many-to-many** communication between users rather than just one-to-one.

reimagine

v. to imagine or conceive of something in a new or different way

synonym : re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities
The company is trying to **reimagine** its business model to stay competitive.

landscape

n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

synonym: geography, terrain, topography

(1) a peaceful **landscape**, (2) **landscape** painting

Recent electoral shocks have shaken the political **landscape** in Europe.

boundary

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

synonym: border, frontier, limitation

(1) geographical **boundary**, (2) the **boundary** between reality and fantasy

He wandered the **boundary** between life and death by gunfire.

parallel

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

synonym: aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

launch

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

synonym: start, initiate, begin

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

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

lab

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

synonym : workshop, laboratory, research chamber

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

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

loop

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

synonym : circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for transportation.

ecology

n. the study of the relationships between living organisms, including humans, and their physical environment

(1) science of **ecology**, (2) the **ecology** of the island

Many companies are now enthusiastically embracing the knowledge of **ecology** for sustainable development.

biometric

adj. relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals

(1) **biometric** recognition, (2) **biometrics** for visitors

The new smartphone has **biometric** authentication, such as facial recognition and fingerprint scanning.

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**.

inviting

adj. having an attractive or tempting quality that draws people in; encouraging or alluring in a way that makes people want to take part or participate

synonym : attractive, tempting, alluring

(1) **inviting** scent, (2) **inviting** atmosphere

The **inviting** aroma of freshly baked bread drew me into the bakery.

technological

adj. based on scientific and industrial progress

synonym : specialized, technical

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

Technological advances have disrupted many industries.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

criteria

n. (plural of criterion) standards or conditions by which something may be judged or decided

synonym : bars, benchmarks, standards

(1) **criteria** for action, (2) consistency **criteria**

He didn't meet all the **criteria**, but he was hired anyway.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym : acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

expand

v. to increase or to make something greater in size, number, or importance

synonym : extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

pursue

v. to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

synonym : seek, hunt, chase

(1) **pursue** a goal, (2) **pursue** freedoms

She intends to **pursue** a political career.

Session 2: Spelling

1. a sp___e population *adj.* only in small quantities or numbers and often spread over a wide area
2. co_____e chemically with another substance *v.* to join or merge to form a single thing or group
3. maintain the pr_____ne condition *adj.* new and completely free from dirt or contamination
4. col_____te with the police *v.* to work with someone else to produce or achieve something
5. tec_____cal policy *adj.* based on scientific and industrial progress
6. ind_____al freedom *n.* a single person or thing, as distinct from a group
7. dw__l on the past *v.* to live or reside in a particular place; to think, speak, or write at length on a particular subject; to linger or remain as if unwilling to leave
8. technical dr_____g *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
9. ur__n planning *adj.* relating to or located in a town or city
10. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way
11. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

ANSWERS: 1. sparse, 2. combine, 3. pristine, 4. collaborate, 5. technological, 6. individual, 7. dwell, 8. drawing, 9. urban, 10. reimagine, 11. parallel

- | | |
|-------------------------------|---|
| 12. a pr_____on instrument | <i>n.</i> the quality or condition of being exact and accurate |
| 13. cause an ac_____nt | <i>n.</i> an unfortunate event, especially one causing damage or injury |
| 14. em_____ng country | <i>adj.</i> starting to exist, mature, or become well-known |
| 15. unsatisfied de___e | <i>n.</i> a strong feeling of wanting to have or do something |
| 16. ne___l networks in AI | <i>adj.</i> of or relating to a nerve or the nervous system that includes the brain |
| 17. positive feedback l__p | <i>n.</i> a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself |
| 18. in_____et the question | <i>v.</i> to explain or assign the meaning of information, actions, etc. |
| 19. en___l legal consequences | <i>v.</i> to involve or require something as necessary, particularly as a consequence of a particular situation or action; to impose a burden or restriction on something |
| 20. an an___g watch | <i>adj.</i> relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc. |
| 21. em_____ng technologies | <i>adj.</i> starting to exist, mature, or become well-known |
| 22. cr_____ia for action | <i>n.</i> (plural of criterion) standards or conditions by which something may be judged or decided |

ANSWERS: 12. precision, 13. accident, 14. emerging, 15. desire, 16. neural, 17. loop, 18. interpret, 19. entail, 20. analog, 21. emerging, 22. criteria

23. science of ec____y *n.* the study of the relationships between living organisms, including humans, and their physical environment
24. imp_____ly known disease *adv.* in a faulty or incomplete way
25. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
26. artifact of a pr_____ve humankind *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
27. vi___l navigation *adj.* relating to seeing or sight
28. ro_____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
29. ex_____e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
30. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
31. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
32. in_____ng atmosphere *adj.* having an attractive or tempting quality that draws people in; encouraging or alluring in a way that makes people want to take part or participate

ANSWERS: 23. ecology, 24. imperfectly, 25. evolve, 26. primitive, 27. visual, 28. robotic, 29. explore, 30. software, 31. recognize, 32. inviting

33. col_____ion between companies *n.* the act or situation of working together to create or produce something
34. sp___e snowfall *adj.* only in small quantities or numbers and often spread over a wide area
35. si_____te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
36. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
37. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
38. high ve_____ty *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
39. g__e steadily at his face *v.* to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
40. ex_____e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
41. la____h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 33. collaboration, 34. sparse, 35. simulate, 36. robotic, 37. interaction, 38. velocity, 39. gaze, 40. explore, 41. launch

42. di____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
43. analog se__o *n.* a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications
44. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
45. si____te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
46. dr____g for design *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
47. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
48. a pa____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
49. cr____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 42. digital, 43. servo, 44. mimic, 45. simulate, 46. drawing, 47. rely, 48. parallel, 49. creative

50. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
51. pu___e freedoms *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them
52. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
53. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
54. coconut p__m trees *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
55. the major pr_____e *n.* a statement or proposition that is held to be true or from which a conclusion can be drawn
56. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
57. phi_____hy of education *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
58. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole

ANSWERS: 50. brain, 51. pursue, 52. dimension, 53. interaction, 54. palm, 55. premise, 56. industrious, 57. philosophy, 58. construct

59. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
60. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
61. fleshly de___e *n.* a strong feeling of wanting to have or do something
62. ma_____le attitude *adj.* able to be easily shaped, molded, or manipulated, particularly in a physical or metaphorical sense; capable of being adapted or changed according to different circumstances or situations
63. dw___l on a problem *v.* to live or reside in a particular place; to think, speak, or write at length on a particular subject; to linger or remain as if unwilling to leave
64. pu_____ly financed schools *adv.* in a manner accessible to or observable by the public; by the government
65. g___e absently out a window *v.* to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
66. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
67. omn_____nt ruler *adj.* having unlimited power or authority; able to do anything or control everything
68. pi___l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

ANSWERS: 59. fundamental, 60. expand, 61. desire, 62. malleable, 63. dwell, 64. publicly, 65. gaze, 66. creative, 67. omnipotent, 68. pixel

69. population de_____y *n.* the quality of compactness of a substance
70. re_____ng payments *adj.* happening or occurring again periodically or repeatedly
71. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
72. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
73. li_____ng commitment *adj.* lasting for the whole of someone's life
74. li_____ng career *adj.* lasting for the whole of someone's life
75. pu_____te his talk *v.* to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically
76. in_____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
77. feeling omn_____nt *adj.* having unlimited power or authority; able to do anything or control everything
78. a peaceful la_____pe *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
79. the fas_____on with classical music *n.* the state of being intensely interested in someone or something, or a powerful attraction
80. col_____ion platform *n.* the act or situation of working together to create or produce something

ANSWERS: 69. density, 70. recurring, 71. doe, 72. generation, 73. lifelong, 74. lifelong, 75. punctuate, 76. inspire, 77. omnipotent, 78. landscape, 79. fascination, 80. collaboration

81. 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
82. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
83. arc_____ure design *n.* the art and science of designing and constructing buildings
84. 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
85. se__o controller *n.* a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications
86. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
87. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
88. pu_____te a sentence *v.* to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically
89. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern

ANSWERS: 81. efficient, 82. environment, 83. architecture, 84. efficient, 85. servo, 86. algorithm, 87. mimic, 88. punctuate, 89. random

90. ur__n property owners *adj.* relating to or located in a town or city
91. ne___l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
92. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
93. tra_____lly accepted concept *adv.* in accordance with tradition; typically or commonly done in a particular way
94. the bo_____ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
95. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
96. 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
97. a prodigious vi_____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
98. sw__t bath *n.* the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
99. the p__m side of the forearm *n.* the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves
100. me__y handling *adj.* disorganized and untidy

ANSWERS: 90. urban, 91. neural, 92. generation, 93. traditionally, 94. boundary, 95. experiment, 96. embrace, 97. vision, 98. sweat, 99. palm, 100. messy

101. higher pixel de_____y	<i>n.</i> the quality of compactness of a substance
102. no_____an intelligence	<i>adj.</i> not human; belonging to or characteristic of animals or things rather than people
103. all in a sw__t	<i>n.</i> the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
104. ind_____us student	<i>adj.</i> hardworking, diligent, and persistent in effort
105. a pai_____ng student	<i>adj.</i> cautious and correct, and requiring a significant amount of effort
106. tec_____cal advancement	<i>adj.</i> based on scientific and industrial progress
107. no_____an species	<i>adj.</i> not human; belonging to or characteristic of animals or things rather than people
108. ge_____e of goodwill	<i>n.</i> a movement of the hands, head, or face that express a particular meaning
109. the te_____ue applied to construction	<i>n.</i> a particular way or art of doing something that needs skill
110. ant_____te a black future	<i>v.</i> to expect or predict that something will happen; to tell in advance
111. AI expert	<i>n.</i> (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

ANSWERS: 101. density, 102. nonhuman, 103. sweat, 104. industrious, 105. painstaking, 106. technological, 107. nonhuman, 108. gesture, 109. technique, 110. anticipate, 111. AI

112. first design sk___hes *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
113. d_e rabbit *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
114. a tr_____on of a culture *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
115. in_____et a graph *v.* to explain or assign the meaning of information, actions, etc.
116. sur_____nce cameras *n.* the act of carefully monitoring a person suspected of a crime or a place where a crime may be committed or expected
117. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
118. op_____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
119. geographical bo_____ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
120. dy_____cs of group *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

ANSWERS: 112. sketch, 113. doe, 114. tradition, 115. interpret, 116. surveillance, 117. construct, 118. optical, 119. boundary, 120. dynamics

121. telescopic vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
122. an int_____ve device *adj.* acting reciprocally; mutually responsive
123. 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
124. pai_____ng research *adj.* cautious and correct, and requiring a significant amount of effort
125. me__y data *adj.* disorganized and untidy
126. ant_____te your kind cooperation *v.* to expect or predict that something will happen; to tell in advance
127. imp_____ly developed *adv.* in a faulty or incomplete way
128. po__t the existence of life after death *v.* to suggest or accept something as fact or as a basis for argument or consideration
129. color pi__ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
130. man_____any relationship *adj.* describes a communication or information exchange system in which multiple senders can communicate with multiple receivers, creating a decentralized and collaborative network
131. 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

ANSWERS: 121. vision, 122. interactive, 123. embrace, 124. painstaking, 125. messy, 126. anticipate, 127. imperfectly, 128. posit, 129. pixel, 130. many-to-many, 131. investigate

132. bi_____ics for visitors *adj.* relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals
133. the ec_____y of the island *n.* the study of the relationships between living organisms, including humans, and their physical environment
134. exit from a l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
135. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
136. hand ge_____e *n.* a movement of the hands, head, or face that express a particular meaning
137. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
138. a penciled sk___h *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
139. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 132. biometric, 133. ecology, 134. loop, 135. random, 136. gesture, 137. brain, 138. sketch, 139. launch

140. la_____pe painting *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
141. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
142. rapt in fas_____on *n.* the state of being intensely interested in someone or something, or a powerful attraction
143. a se_____y organ *adj.* of or relating to the physical senses
144. have an in_____nt dislike *adj.* existing in something as a permanent, essential, or characteristic attribute
145. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
146. re_____ne the future *v.* to imagine or conceive of something in a new or different way
147. in_____nt risk *adj.* existing in something as a permanent, essential, or characteristic attribute
148. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
149. 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

ANSWERS: 140. landscape, 141. experiment, 142. fascination, 143. sensory, 144. inherent, 145. adapt, 146. reimagine, 147. inherent, 148. movement, 149. AI

150. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
151. in_____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
152. in_____ng scent *adj.* having an attractive or tempting quality that draws people in; encouraging or alluring in a way that makes people want to take part or participate
153. ma_____le clay *adj.* able to be easily shaped, molded, or manipulated, particularly in a physical or metaphorical sense; capable of being adapted or changed according to different circumstances or situations
154. western phi_____hy *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
155. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
156. sl__e a glance *v.* to move or cause to move smoothly along a surface without interruption
157. en___l risks *v.* to involve or require something as necessary, particularly as a consequence of a particular situation or action; to impose a burden or restriction on something
158. fa___r in speech *v.* to hesitate or stumble in action or speech; to lose strength or momentum; to become unsteady or shaky

ANSWERS: 150. excite, 151. inspire, 152. inviting, 153. malleable, 154. philosophy, 155. analyze, 156. slide, 157. entail, 158. falter

159. railways in_____ct the country *v.* to meet or cross one another
160. 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
161. new op_____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
162. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
163. dy_____cs of economy *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
164. manually op_____e a machine *v.* to work in a particular way; to supervise something
165. au_____ic operation *adj.* able to work or operate with little or no direct human control; independent of external control
166. co_____e augmented reality *v.* to join or merge to form a single thing or group
167. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning

ANSWERS: 159. intersect, 160. develop, 161. optical, 162. lab, 163. dynamics, 164. operate, 165. automatic, 166. combine, 167. analyze

168. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
169. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
170. he is kept under sur_____nce *n.* the act of carefully monitoring a person suspected of a crime or a place where a crime may be committed or expected
171. man_____any network *adj.* describes a communication or information exchange system in which multiple senders can communicate with multiple receivers, creating a decentralized and collaborative network
172. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
173. pu___e a goal *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them
174. 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
175. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 168. software, 169. evolve, 170. surveillance, 171. many-to-many, 172. extract, 173. pursue, 174. hack, 175. excite

176. 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
177. a child with se____y issues *adj.* of or relating to the physical senses
178. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
179. classic arc_____ure *n.* the art and science of designing and constructing buildings
180. pr_____ve society *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
181. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
182. speak with pr_____on *n.* the quality or condition of being exact and accurate
183. initial ve____ty *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
184. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
185. a private ind_____al *n.* a single person or thing, as distinct from a group

ANSWERS: 176. develop, 177. sensory, 178. slide, 179. architecture, 180. primitive, 181. technique, 182. precision, 183. velocity, 184. movement, 185. individual

186. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
187. botanical ex_____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
188. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
189. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
190. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
191. 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

ANSWERS: 186. algorithm, 187. extract, 188. lab, 189. dimension, 190. function, 191. process

192. fu____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
193. fa___r in decision-making *v.* to hesitate or stumble in action or speech; to lose strength or momentum; to become unsteady or shaky
194. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
195. tra_____lly sung at a banquet *adv.* in accordance with tradition; typically or commonly done in a particular way
196. injury in a car ac_____nt *n.* an unfortunate event, especially one causing damage or injury
197. 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
198. int_____ve experience *adj.* acting reciprocally; mutually responsive
199. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
200. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 192. function, 193. falter, 194. expand, 195. traditionally, 196. accident, 197. hack, 198. interactive, 199. fundamental, 200. rely

201. ad__t as needed *v.* to make fit for or change to suit a new purpose or environment
202. the au_____ic shrinking of the pupils *adj.* able to work or operate with little or no direct human control; independent of external control
203. pu_____ly accessible record *adv.* in a manner accessible to or observable by the public; by the government
204. make a pr_____e *n.* a statement or proposition that is held to be true or from which a conclusion can be drawn
205. col_____te on a press release *v.* to work with someone else to produce or achieve something
206. po__t the premise *v.* to suggest or accept something as fact or as a basis for argument or consideration
207. digitization of an___g sounds *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
208. bi_____ic recognition *adj.* relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals

ANSWERS: 201. adapt, 202. automatic, 203. publicly, 204. premise, 205. collaborate, 206. posit, 207. analog, 208. biometric

209. re_____ng decimals *adj.* happening or occurring again periodically or repeatedly
210. pr_____ne beach *adj.* new and completely free from dirt or contamination
211. in_____ct at a point *v.* to meet or cross one another
212. consistency cr_____ia *n.* (plural of criterion) standards or conditions by which something may be judged or decided
213. field of vi____l arts *adj.* relating to seeing or sight
214. 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
215. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
216. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
217. 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
218. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

ANSWERS: 209. recurring, 210. pristine, 211. intersect, 212. criteria, 213. visual, 214. process, 215. digital, 216. operate, 217. investigate, 218. recognize

219. against tr_____on

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

220. env_____nt affairs

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

ANSWERS: 219. tradition, 220. environment

Session 3: Fill in the Blanks

1. They hope to _____ their business worldwide.
v. to increase or to make something greater in size, number, or importance
2. The new smartphone has _____ authentication, such as facial recognition and fingerprint scanning.
adj. relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals
3. 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
4. She made a facial _____ to express disagreement.
n. a movement of the hands, head, or face that express a particular meaning
5. It is terrific to camp in _____ nature.
adj. new and completely free from dirt or contamination
6. His _____ bedroom is always a source of frustration for his mother.
adj. disorganized and untidy
7. There was a disturbance of _____ function.
adj. of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 1. expand, 2. biometric, 3. embrace, 4. gesture, 5. pristine, 6. messy, 7. neural

8. Different people might _____ this news differently.
v. to explain or assign the meaning of information, actions, etc.
9. The company is set to _____ its new product line next month.
v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
10. Gold is a _____ metal that can be easily shaped into different forms.
adj. able to be easily shaped, molded, or manipulated, particularly in a physical or metaphorical sense; capable of being adapted or changed according to different circumstances or situations
11. The training of a hawk was a _____ process.
adj. cautious and correct, and requiring a significant amount of effort
12. The youngster was _____ at by the beast.
v. to stare at something or someone for an extended time, usually out of surprise or adoration, or because you are thinking about something else
13. Only a small number of _____ utilities offer sanitation services.
adj. relating to or located in a town or city
14. My confidence began to _____ as I gave my presentation in front of the class.
v. to hesitate or stumble in action or speech; to lose strength or momentum; to become unsteady or shaky
15. The relationship _____ between the two countries were complex and constantly changing.
n. the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

ANSWERS: 8. interpret, 9. launch, 10. malleable, 11. painstaking, 12. gazed, 13. urban, 14. falter, 15. dynamics

16. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.
- n.* a workplace for the conduct of scientific research; a laboratory
17. He didn't meet all the _____ but he was hired anyway.
- n.* (plural of criterion) standards or conditions by which something may be judged or decided
18. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
19. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
20. I love to _____ in nature and feel its calming effects on me.
- v.* to live or reside in a particular place; to think, speak, or write at length on a particular subject; to linger or remain as if unwilling to leave
21. To find drunk drivers, police conduct _____ tests.
- adj.* made, done, or happening without method, conscious decision, or any regular pattern
22. I advised him to _____ to his new surroundings.
- v.* to make fit for or change to suit a new purpose or environment
23. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 16. lab, 17. criteria, 18. constructs, 19. evolved, 20. dwell, 21. random, 22. adapt, 23. function

24. 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
25. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
26. Her multidisciplinary works _____ music and picture with writing.
v. to meet or cross one another
27. A _____ back pain interfered with his concentration.
adj. happening or occurring again periodically or repeatedly
28. The company specializes in both hardware and _____.
n. a set of computer programs and associated documentation and data for doing particular computational jobs
29. The younger _____ has different values and beliefs than the older one.
n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity
30. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length
31. 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

ANSWERS: 24. investigated, 25. tradition, 26. intersect, 27. recurring, 28. software, 29. generation, 30. dimensions, 31. automatic

32. Anesthetize the gum before _____ the teeth.
- n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
33. She _____ denounced the government's mishandling of the economic crisis.
- adv.* in a manner accessible to or observable by the public; by the government
34. He is very popular at school because he can _____ all the teachers' accents.
- v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
35. Many people in this city use the _____ railway for transportation.
- n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
36. The book's _____ is that the main character must save the world from an impending disaster.
- n.* a statement or proposition that is held to be true or from which a conclusion can be drawn
37. 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
38. The unique style of this martial arts _____ many action film producers.
- v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
39. The computer screen comprises thousands of tiny _____ that create the overall picture.
- n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image

ANSWERS: 32. extracting, 33. publicly, 34. mimic, 35. loop, 36. premise, 37. hacking,

38. inspired, 39. pixels

40. She is talented at _____ and has won several awards for her artwork.
n. the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
41. _____ the ceremony was held outdoors.
adv. in accordance with tradition; typically or commonly done in a particular way
42. 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
43. Strikes had also _____ the preceding weeks.
v. to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically
44. This operation requires both patience and _____.
n. the quality or condition of being exact and accurate
45. The teacher attempted to _____ the root cause of our mistake.
v. to think about in-depth and evaluate to discover essential features or meaning
46. He created an _____ shaped torso.
adv. in a faulty or incomplete way
47. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
48. She wiped the _____ off her forehead with a towel.
n. the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress

ANSWERS: 40. drawing, 41. Traditionally, 42. environment, 43. punctuated, 44. precision, 45. analyze, 46. imperfectly, 47. Technological, 48. sweat

49. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

50. The new social media platform allows for _____ communication between users rather than just one-to-one.

adj. describes a communication or information exchange system in which multiple senders can communicate with multiple receivers, creating a decentralized and collaborative network

51. X-rays revealed a small tumor in his _____.

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

52. The partnership program requires a mutual _____ between both agencies.

n. the act or situation of working together to create or produce something

53. He walked a road _____ to the railroad.

adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

54. Yesterday, I created a rough _____ of the plan.

n. a simple, quickly-made picture that does not have many details; a short descriptive summary of something

55. The novel contains a criticism of the _____ society.

n. the act of carefully monitoring a person suspected of a crime or a place where a crime may be committed or expected

56. He wandered the _____ between life and death by gunfire.

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

ANSWERS: 49. visual, 50. many-to-many, 51. brain, 52. collaboration, 53. parallel, 54. sketch, 55. surveillance, 56. boundary

57. The _____ of the two groups is good for brainstorming.
n. the act of connecting with someone, mainly when working, playing, or spending time with them
58. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group
59. Honesty is an _____ quality that everyone should strive to possess.
adj. existing in something as a permanent, essential, or characteristic attribute
60. The _____ aroma of freshly baked bread drew me into the bakery.
adj. having an attractive or tempting quality that draws people in; encouraging or alluring in a way that makes people want to take part or participate
61. 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
62. The surgeon removed the tumor using _____ video assistance.
adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
63. The experiment was conducted on _____ primates.
adj. not human; belonging to or characteristic of animals or things rather than people
64. Recent electoral shocks have shaken the political _____ in Europe.
n. an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 57. interaction, 58. individual, 59. inherent, 60. inviting, 61. AI, 62. robotic, 63. nonhuman, 64. landscape

65. Many companies are now enthusiastically embracing the knowledge of _____ for sustainable development.
- n.* the study of the relationships between living organisms, including humans, and their physical environment
66. It's important to _____ your strengths and weaknesses.
- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
67. The city is known for its impressive _____ and beautiful old buildings.
- n.* the art and science of designing and constructing buildings
68. We _____ heavy snowfall tomorrow.
- v.* to expect or predict that something will happen; to tell in advance
69. The _____ partially destroyed my vehicle.
- n.* an unfortunate event, especially one causing damage or injury
70. He had painted the wood to _____ stone.
- v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
71. The company's CEO was seen as _____ making all major decisions without consulting anyone.
- adj.* having unlimited power or authority; able to do anything or control everything
72. Do you know the _____ of the population in Hong Kong?
- n.* the quality of compactness of a substance

ANSWERS: 65. ecology, 66. recognize, 67. architecture, 68. anticipate, 69. accident, 70. simulate, 71. omnipotent, 72. density

73. Human behavior has _____ characteristics.

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

74. Ethics is a branch of _____.

n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

75. The _____ of the car was too fast for the road conditions.

n. the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

76. Driving is difficult for me because of my poor _____.

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

77. This machine is too difficult to _____ for me.

v. to work in a particular way; to supervise something

78. A _____ motor controlled the robot's movements.

n. a type of motor or mechanism used to control the position or movement of a machine or device, often used in robotics, automation, and other applications

79. 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

80. We must _____ a new system to streamline our workflow and increase efficiency.

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

ANSWERS: 73. fundamental, 74. philosophy, 75. velocity, 76. vision, 77. operate, 78. servo, 79. efficient, 80. develop

81. Sensors convert physical phenomena into _____ signals.

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

82. Jockey's superior _____ brought him victory.

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

83. 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

84. His _____ showed highly positive results.

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

85. She intends to _____ a political career.

v. to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

86. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

87. We can evaluate the performance of an _____ in terms of computation time.

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

88. This high-performance camera is compact enough to fit in the _____ of your hand.

n. the inner surface of the hand from the wrist to the base of the fingers; any plant of the family Palmae having an unbranched trunk crowned by large pinnate or palmate leaves

ANSWERS: 81. digital, 82. technique, 83. process, 84. experiments, 85. pursue, 86. industrious, 87. algorithm, 88. palm

89. She agreed to _____ with him in creating new artwork.

v. to work with someone else to produce or achieve something

90. Sharks have highly developed _____ systems and are extremely sensitive creatures.

adj. of or relating to the physical senses

91. The new video game has an _____ storyline that allows players to make choices that affect the game's outcome.

adj. acting reciprocally; mutually responsive

92. Hydrogen and oxygen _____ to form water.

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

93. 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

94. Babies heavily _____ on others for food.

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

95. There is a _____ area between galaxies.

adj. only in small quantities or numbers and often spread over a wide area

96. If necessary, you can _____ the front seats forward.

v. to move or cause to move smoothly along a surface without interruption

ANSWERS: 89. collaborate, 90. sensory, 91. interactive, 92. combine, 93. creative, 94. rely, 95. sparse, 96. slide

97. The industry in this country is still _____.

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

98. Low sexual _____ typically correlates with low testosterone levels.

n. a strong feeling of wanting to have or do something

99. Mercury thermometers are a type of _____ sensor.

adj. relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

100. The _____ of the dancers on stage was graceful and elegant.

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

101. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

102. The company is trying to _____ its business model to stay competitive.

v. to imagine or conceive of something in a new or different way

103. Hunters use a whistle that makes the ____ sound to lure stags.

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

104. I looked at the painting in _____.

n. the state of being intensely interested in someone or something, or a powerful attraction

ANSWERS: 97. primitive, 98. desire, 99. analog, 100. movement, 101. excited, 102. reimagine, 103. doe, 104. fascination

105. He had a _____ love of reading and spent hours daily with a book.

adj. lasting for the whole of someone's life

106. We should _____ several hypotheses to discuss the matter.

v. to suggest or accept something as fact or as a basis for argument or consideration

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

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

108. The job offer _____ a lot of responsibility and hard work.

v. to involve or require something as necessary, particularly as a consequence of a particular situation or action; to impose a burden or restriction on something

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

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

110. The _____ illusion made it appear like the building was floating in midair.

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 105. lifelong, 106. posit, 107. Emerging, 108. entails, 109. explore, 110. optical