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Vocabulary Builder Reference from...

Emma Hart: Self-assembling robots and the potential of artificial evolution | TED Talk https://www.ted.com/talks/emma_hart_self_assembling_robots_and_the_potential_of_artificial_evolution



All Words

IMPORTANT

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Session 1: Word List

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.

faraway

adj. located at a geographically distant place; remote or separated by distance; distant or not easily accessible

synonym: distant, remote, far-off

(1) faraway land, (2) faraway dream

The view from the **faraway** hilltop was breathtakingly beautiful.

geography

 a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth

synonym: landscape, terrain, topography

(1) geography class, (2) economic geography

She did well on her geography exam.

inhospitable

adj. harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you

synonym: sterile, unfriendly, unwelcoming

(1) **inhospitable** environment, (2) in an **inhospitable** manner

He trekked across some of the most **inhospitable** mountains in the world.

suitable

adj. fit or appropriate; proper; adaptedsynonym: appropriate, fitting, proper

(1) **suitable** amount, (2) date **suitable** to both groups The dress was **suitable** for the formal occasion.

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.

adapt

 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.

surround

- v. to be all around something or somebody synonym: encircle, encompass, envelop
- (1) **surround** a town, (2) a stone wall **surrounds** the palace On three sides, mountains **surround** the settlement.

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.

radical

adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions

synonym: extreme, revolutionary

(1) a **radical** flaw in the plan, (2) a **radical** cure

The government established by the coup was more **radical** than before.

reproduce

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

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself By dividing and creating copies of themselves, bacteria **reproduce**.

fabricate

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

synonym: manufacture, assemble, falsify

(1) fabricate a chemical, (2) fabricate an excuse The detective discovered that the witness had fabricated her story about the crime.

engineer

- 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 shortageThe engineer will repair my telephone tomorrow morning.

perspective

a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

- (1) a **perspective** view, (2) the **perspective** of the battle His father's death changed his whole **perspective** on life.
- a pile of something arranged or laid one on top of another; a large tall chimney through which combustion

stack

gases and smoke can be evacuated

synonym: accumulation, heap, pile

(1) high **stack**, (2) a large **stack** of paper

The earthquake caused a **stack** of lumber to crumble noisily.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

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

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

straightforward

adj. easy to do or understand, or simple; free from ambiguity *synonym*: honest, candid, forthright

(1) **straightforward** manner, (2) make a **straightforward** dash

The defendant gave a **straightforward** and accurate description of the accident.

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.

nuclear

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

synonym: atomic

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

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

react

v. to take action in response to something

synonym: respond, reply, oppose

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

thinking

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

mineral

- a solid inorganic substance occurring in nature having a definite chemical composition
- (1) vitamin and minerals, (2) mineral rights

The robust economy of the country is based on its **mineral** resources.

trench

 a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water

synonym: aqueduct, ditch, channel

(1) deep-sea **trench**, (2) **trench** excavator

A **trench** was being dug alongside the road by workers.

asteroid

 a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

synonym: minor planet, planetoid, rocky planetesimal

(1) asteroid mining, (2) asteroid explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

frustrate

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

synonym: hinder, thwart, dishearten

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

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

suddenly

adv. quickly and unexpectedly

synonym: abruptly, unexpectedly, unawares

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

Who answers **suddenly** knows little.

drill

 a tool or machine used for making round holes or driving fasteners; a training or practice

synonym: exercise, routine, training

(1) the drill hit the well, (2) fire drill

Several military **drill** programs have become popular methods of exercise.

clamber

v. to climb or move in an awkward, laborious, or ungraceful way, often using one's hands and feet

synonym: climb, scramble, crawl

(1) **clamber** up the ladder, (2) **clamber** over a boulder I had to **clamber** over the rocks to reach the cave.

cliff

 a steep rock face, especially one at the edge of the sea or a river

synonym: crag, escarpment, precipice

(1) a bold cliff, (2) cliff diving

He stood at the edge of the cliff and looked out to sea.

locomotion

- *n.* the action or ability to move from one place to another *synonym*: movement, travel, mobility
- Iocomotion system, (2) Iocomotion control
 The Iocomotion of the robotic arm was smooth and precise.

optimize

- v. to make the best or most effective use of something synonym: advance, amend, improve
- (1) **optimize** a process, (2) **optimize** control for cooling The essence of economics is to **optimize** the allocation of limited resources.

situ

adj. short for "situated," meaning located or placed in a particular position or circumstance

synonym: situational, contextual, circumstantial

(1) ex- situ conservation, (2) in- situ control

Melanoma in **situ** is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

environment

 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**.

uniquely

adv. in a way that is different from all others; in a way that is not shared by others

synonym: singularly, exclusively, distinctively

(1) play a **uniquely** important role, (2) **uniquely** different The painting is **uniquely** painted with a combination of watercolors and oils.

biology

- the scientific study of life and the natural processes of living things
- (1) evolutionary **biology**, (2) cell and molecular **biology** In junior high school, we had to dissect a frog in **biology** class.

adaptation

 the action or process of changing to suit different conditions

synonym: adaption, adjustment, transformation

(1) **adaptation** ability, (2) language **adaptation**The company's **adaptation** approach has been highly effective.

thrive

- v. to grow vigorously; to make steady progress synonym: bloom, flourish, prosper
- (1) **thrive** in a society, (2) **thrive** on pressure Without investment, a business cannot **thrive**.

rainforest

- a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
- (1) **rainforest** destruction, (2) tropical **rainforest**The destruction of the **rainforest** is a ticking time bomb for the Earth.

vine

- a climbing plant that produces grapes; any plant with a growth habit of trailing or climbing stems
- (1) a green vine, (2) vine of oreA vine remains productive throughout the year.

satellite

n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

synonym: orbiter, asteroid, moon

- (1) a GPS **satellite**, (2) a meteorological **satellite** Launching an artificial **satellite** contributed to the technological development of our country.
- n. a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis

synonym: cane, rod, stick

(1) bat cave, (2) bat an eye

The cave was a habitat for **bats**.

amplify

- v. to enhance something, particularly sound or brightness synonym: intensify, boost, argument
- (1) **amplify** a signal, (2) **amplify** the effect You might need to **amplify** this point.

improvisation

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

synonym: spontaneity, ad-lib, extemporization

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

bat

He created a beautiful piece of music using only improvisation.

pollination

n. the transfer of pollen from the male reproductive organs of one flower to the female reproductive organs of another flower, resulting in fertilization and the production of seeds

synonym: flowering, fertilization, cross-fertilization

(1) **pollination** by insect, (2) the cross-**pollination** of the arts

The **pollination** process is crucial for the growth and reproduction of many plants.

evolution

- n. a gradual process of transformation of living thingssynonym: elaboration, expansion, transition
- (1) human **evolution**, (2) **evolution** theory They study the **evolution** of the universe.

mimicry

- n. the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh synonym: imitation, apery
- (1) vocal mimicry, (2) floral mimicrySome insects use mimicry to avoid detection by predators.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) observe a tradition, (2) observe wildlifeIt is important to observe safety procedures in the workplace to prevent accidents.

harness

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.

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**.

discovery

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

synonym: finding, uncovering, detection

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

Her research team made an important discovery.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child I can't **conceive** he'd want to harm us.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

autonomous

adj. capable of governing or controlling its affairs *synonym*: independent, self-governing, self-reliant

(1) development of **autonomous** vehicles, (2) an **autonomous** judiciary

Five of the six provinces will become **autonomous** regions under the new federal system of government.

breed

 to keep animals for producing offspring in a regulated manner

synonym: raise, multiply, reproduce

(1) breed horses, (2) breed suspicion

This animal **breeds** in northern latitudes.

drought

 a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation

synonym: dryness, aridity, water shortage

(1) periods of **drought**, (2) **drought** conditions

The region has been experiencing a severe **drought**, leading to water shortages and crop failures.

resistance

 the act of defending oneself from an aggressor or refusing to accept something

synonym: opposition, antagonism, defiance

(1) resistance movement, (2) resistance to insulin

The bill to increase the consumption tax had passed despite much **resistance** from the public.

squeeze

v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

synonym: compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession

She **squeezed** the toothpaste tube from the middle to get the last bit out.

gap

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym: opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap** Many people are working together to close the gender **gap**.

imitate

v. to copy the speech, behavior, appearance, etc. of someone or something

synonym: mimic, emulate, replicate

(1) **imitate** painting styles, (2) **imitate** animal sounds He **imitated** the modus operandi of the famous phantom thief.

algorithm

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

turbine

 a machine that rotates to generate power from fluids such as water or gas

synonym: engine, generator, power plant

(1) turbine energy, (2) turbine aerofoil

The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

blade

 the flat part of a knife, weapon, or machine with a very thin edge used for cutting

synonym: knife, sword, cutter

a blade of grass, (2) the blade of a turbine
 The blade of the katana itself is still in excellent condition.

communicate

 to share or exchange information with others by speaking, writing, moving your body, or using other signals synonym: convey, share, transmit

- (1) **communicate** his anxieties to the psychiatrist,
- (2) **communicate** well with my advisor

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

antenna

 an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

synonym: feeler, receiver

(1) **antenna** of insect, (2) extend the TV **antenna** He had a special **antenna** for public relations

brain

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

synonym: intellect, mind, encephalon

basic brain function, (2) permanent brain damage
 rays revealed a small tumor in his brain.

translate

- v. to convert or change words into another language synonym: convert, transcribe, render
- (1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

appropriate

adj. suitable or proper in the circumstances; fittingsynonym: fitting, suitable, proper

appropriate behavior, (2) an appropriate time
 would be appropriate to dress nicely for the wedding.

surprisingly

adv. in a way that causes amazement or wonder synonym: exceptionally, notably, unusually

(1) **surprisingly** advanced culture, (2) have **surprisingly** little effect

The exam was **surprisingly** tricky for everyone.

ingredient

- n. one of the things used to make something, especially one of the foods used to make a particular dishsynonym: element, component
- (1) secret **ingredients**, (2) compound the **ingredients**Greed is the primary **ingredient** in the making of criminals.

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.

exhibit

 to show something in public for people to enjoy or to provide them with information

synonym: display, expose, show

(1) **exhibit** a bad attitude, (2) **exhibit** a great talent Other technology industries **exhibit** similarly explosive growth.

variation

- n. the act or state of changing; a difference or change in the way something is done, made or saidsynonym: fluctuation, change, variation
- (1) **variation** of temperature, (2) gene **variation**There is a lot of **variation** in the colors of flowers in the garden.

reproduction

- n. the process by which organisms create offspring; the production of something similar to an original worksynonym: procreation, replication, duplication
- (1) reproduction rate, (2) reproduction systemThe reproduction of the plant depends on the pollinators.

offspring

- n. descendant; any immature animal or plantsynonym: children, descendants, heirs
- (1) female offspring, (2) produce offspring
 How many offspring does the average lion have?

inherit

v. to receive money, property, or a title from someone after they have died

synonym: obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property After his death, his sons **inherited** his business.

trait

n. a particular feature of your nature

synonym: attribute, feature, quality

(1) chemical trait, (2) personality traits

Multiple genes may influence behavioral **traits** concurrently.

occasionally

adv. now and then; sometimes but not oftensynonym: periodically, sometimes, from time to time

(1) **occasionally** dine with friends, (2) **occasionally** change the routine

She still occasionally writes a short romance novel.

acquire

 to buy or obtain something such as an asset, object, knowledge, etc., for oneself

synonym: attain, earn, catch

(1) **acquire** knowledge, (2) **acquire** a new company Children **acquire** language at a fantastic rate.

mutation

 the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym: metamorphosis, transformation, alteration

(1) mutation of DNA, (2) hereditary mutation

Radiation often promotes genetic **mutations** in plants and animals.

mixture

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

synonym: blend, amalgam, concoction

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

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

hardware

 durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems

synonym: gear, apparatus, gadget

(1) the **hardware** department, (2) a vast inventory of **hardware**

The mouse and keyboard are essential **hardware** for operating a PC.

software

 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**.

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

a digital watch, (2) digital electronic signature
 Sensors convert physical phenomena into digital signals.

blueprint

 a photographic print of an early plan for a building or machine

synonym: draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint** A business plan is a **blueprint** for your success.

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.

mechanism

 a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

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 randomTo find drunk drivers, police conduct random tests.

generate

v. to produce or create something; to make offspring by reproduction

synonym: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month The economic stimulation program would **generate** a lot of new jobs.

initial

adj. of or happening at the beginning; (noun) the first letter of a word, especially a person's name

synonym: basic, primary, beginning

(1) initial velocity, (2) an initial letter

They took the initial step toward reconciliation.

kick-start

v. to start something by providing an initial burst of energy or enthusiasm

synonym: initiate, start, launch

(1) **kick-start** the project, (2) **kick-start** the economy She needed to **kick-start** her weight loss journey.

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.

skeleton

 the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant

synonym: bones, frame, structure

(1) the steel **skeleton** of a building, (2) **skeleton** hand Scientists studied the ancient **skeleton** to learn more about the creature's anatomy.

automated

 adj. carried out by machines or computers to replace or decrease human labor

synonym: computerized, mechanical, laborsaving

(1) **automated** manual transmission, (2) **automated** way The plant will continue operating through an **automated** system 24 hours a day.

assembly

 a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym: crowd, gathering, mass

(1) assembly line, (2) assembly hall

This company's **assembly** plant is an enormous facility.

electron

n. a tiny particle with the negative electrical chargesynonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**The outermost **electron** shell determines the chemical properties of an atom.

equivalent

- n. having the same value, quality, meaning, purpose, etc.synonym: equal, counterpart, match
- (1) **equivalent** amounts, (2) **equivalent** in meaning The European Central Bank is Europe's **equivalent** of the Federal Reserve.

kindergarten

 a school or class for young children, usually between the ages of four and six

synonym: preschool, nursery school, daycare

- (1) **kindergarten** class, (2) **kindergarten** teacher The **kindergarten** students were having a good time playing with toys.
- v. to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development

synonym: purify, process, improve

(1) **refine** oil, (2) **refine** a language

The company is working to **refine** its production process to be more efficient.

motor

refine

- n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. worksynonym: actuator, engine, machine
- (1) a **motor** mechanic, (2) DC **motor** control Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

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.

conduct

v. to organize and carry out a particular activitysynonym: behave, lead, carry on

(1) **conduct** a background check, (2) **conduct** research Police will **conduct** random breath testing for drunk driving.

decide

- v. to make up someone's mind about something; to come to a conclusion or judgment after considering options
 synonym: choose, determine, settle
- (1) **decide** a question, (2) **decide** on a course of action She couldn't **decide** whether to order the pizza or the pasta for dinner.

characteristic

 a typical feature or quality that can identify, tell apart, or describe something or somebody

synonym: feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

cycle

 an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

synonym: revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

generation

- n. all the people born and living at about the same time, regarded collectively; the production of heat or electricitysynonym: cohort, age group, era
- (1) **generation** gap, (2) the **generation** of electricity

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

gradual

adj. happening slowly over a long period of time or distance; not steep or abrupt

synonym: incremental, gradational, piecemeal

a gradual process, (2) a gradual change
 The country experienced a gradual increase in population.

frame

- n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window synonym: body, skeleton, scaffolding
- a picture frame,
 the frame of the policy
 detective looked for fingerprints on the window frame.

modern

adj. of or belonging to the present time or recent times synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre-**modern** agricultural society Their headquarters are in a **modern** skyscraper.

artifact

 a person-made object, especially one of historical or cultural interest

synonym: antique, relic, heirloom

paleolithic artifacts, (2) Peruvian artifacts
 The museum has a vast collection of Greek artifacts.

complexity

 the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory The project's **complexity** made it difficult for the team to complete it on time.

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.

virtual

adj. being actually such in almost every respect; existing in essence or effect though not in actual fact

synonym: practical

(1) a **virtual** image, (2) trading of **virtual** currencies She is the **virtual** president of the company.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

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

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

representation

 the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

synonym: delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**A person who has been declared incompetent should have legal **representation**.

advantage

 a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

synonym: benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

configuration

 the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

(1) **configuration** of the system, (2) engine **configuration**The **configuration** of molecules in steel changes significantly with temperature.

rough

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

synonym: inelegant, coarse, barbarian

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

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

estimate

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

synonym: calculate, gauge, evaluate

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

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

physically

- adv. in a way related to a person's body or appearance rather than their mind
- (1) **physically** and mentally, (2) stay **physically** fit Having a **physically** healthy physique is essential for a great life.

predict

- v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
 synonym: forecast, anticipate, foresee
- (1) **predict** the future, (2) **predict** when she will arrive It's notoriously challenging to **predict** birth rates.

novel

 an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

synonym: fiction, story, (adjective) innovative

(1) historical novel, (2) novel effect

The **novel** has largely gotten positive feedback.

cousin

n. the child of your aunt or uncle

synonym: relative

(1) cross- **cousin** marriage, (2) **cousin's** family I used to play with my younger male **cousins** when I was a little girl.

refined

adj. made pure by having impurities or unwanted elements removed by processing

synonym: cultured, purified, tasteful

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(1) adopt a refined attitude, (2) a lot of refined sugar

She was highly **refined** in her choice of apparel.

fiction

 the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

synonym: fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller Truth is stranger than **fiction**.

pursue

 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.

quest

- n. a long or challenging search for somethingsynonym: exploration, inquisition, pursuit
- (1) the **quest** for truth, (2) on a **quest** for happiness That adventurer traveled in **quest** of buried treasure.

exoplanet

n. a planet that orbits a star outside of the solar system
 (1) the closest exoplanet to Earth, (2) exoplanet mission
 The exoplanet Kepler-186f is located 500 light-years from Earth and is believed to be habitable.

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.

pragmatic

adj. practical rather than idealistic

synonym: practical, realistic, down-to-earth

(1) **pragmatic** approach, (2) **pragmatic** politics

He was a **pragmatic** leader who made decisions based on

what was practical rather than ideal.

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change **Climate** and weather have an impact on every part of our lifestyles.

pace

 the speed at which someone or something moves, or the rate at which something happens or changes

synonym: gait, rate, speed

at your own pace,
 the runner's pace
 the economy is growing at a supercharged pace.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym: reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

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.

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.

footprint

- n. a mark of a foot, shoe, or animal's foot left on a surfacesynonym: footmark, imprint, impression
- (1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

sustainable

adj. able to continue or be continued for a long time synonym: continuable, endurable, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

recycle

 to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

unfettered

adj. not constrained or restricted by limitations or rules; free, unrestricted, unbridled

synonym: unrestricted, free, unchained

(1) **unfettered** access, (2) **unfettered** capitalism The athlete felt **unfettered** by her recent injury and performed with ease.

constraint

 a limit or restriction on something, such as an action, behavior, or thought

synonym: limitation, restriction, bound

constraint on business activity, (2) strict time
 constraints

The budget **constraint** forced them to make difficult decisions.

impose

v. to officially force a new law, tax, duty, etc. to be obeyed or received

synonym: charge, levy, foist

(1) **impose** harsher sanctions, (2) **impose** tariffs
The problem with achievement tests is the narrowness they **impose** on students.

Session 2: Spelling

1.	a bold clf	n.	a steep rock face, especially one at the edge of the sea or a river
2.	clf diving	n.	a steep rock face, especially one at the edge of the sea or a river
3.	trte the emotion to a movement	<i>v</i> .	to convert or change words into another language
4.	obe a tradition	ν.	to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
5.	a diI 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
6.	repion system	n.	the process by which organisms create offspring; the production of something similar to an original work
7.	the cross-polon of the arts	n.	the transfer of pollen from the male reproductive organs of one flower to the female reproductive organs of another flower, resulting in fertilization and the production of seeds
8.	ree milk packaging into new paper	v.	to sort and collect things to process them and produce valuable materials

ANSWERS: 1. cliff, 2. cliff, 3. translate, 4. observe, 5. digital, 6. reproduction, 7. pollination, 8. recycle

that can be used again

9.	a ral cure	adj.	relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions
10.	eve over the past decade	<i>v</i> .	to develop gradually, or to cause the development of something or someone gradually
11.	chaotic envnt	n.	the natural world such as air, water, and land in which humans, animals, and plants live
12.	stay phyly fit	adv.	in a way related to a person's body or appearance rather than their mind
13.	on a qut for happiness	n.	a long or challenging search for something
14.	date sule to both groups	adj.	fit or appropriate; proper; adapted
15.	este this chicken to weigh three pounds	<i>v</i> .	to guess or calculate the cost, size, value, etc. of something
16.	connt on business activity	n.	a limit or restriction on something, such as an action, behavior, or thought
17.	the qu_t for truth	n.	a long or challenging search for something
18.	cove of an idea	<i>v</i> .	to have or develop an idea, a plan, etc. in mind; to become pregnant
19.	opze a process	<i>v</i> .	to make the best or most effective use of something
20.	decision-making prs	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

ANSWERS: 9. radical, 10. evolve, 11. environment, 12. physically, 13. quest, 14. suitable, 15. estimate, 16. constraint, 17. quest, 18. conceive, 19. optimize, 20. process

dairy products

ANSWERS: 21. algorithm, 22. individual, 23. simulate, 24. vine, 25. exhibit, 26. rainforest, 27. pursue, 28. evolutionary, 29. exoplanet, 30. creative

31.	development of autus vehicles	adj.	capable of governing or controlling its affairs
32.	vaon of temperature	n.	the act or state of changing; a difference or change in the way something is done, made or said
33.	cot a background check	<i>v</i> .	to organize and carry out a particular activity
34.	ime tariffs	<i>v</i> .	to officially force a new law, tax, duty, etc. to be obeyed or received
35.	brd suspicion	<i>v</i> .	to keep animals for producing offspring in a regulated manner
36.	locon system	n.	the action or ability to move from one place to another
37.	stuff of science fin	n.	the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
38.	acte measurements	adj.	correct and exact in all details
39.	skon hand	n.	the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
40.	have surgly little effect	adv.	in a way that causes amazement or wonder
41.	surgly advanced culture	adv.	in a way that causes amazement or wonder
42.	a perve view	n.	a confident attitude toward something; a particular style of thinking about something

ANSWERS: 31. autonomous, 32. variation, 33. conduct, 34. impose, 35. breed, 36. locomotion, 37. fiction, 38. accurate, 39. skeleton, 40. surprisingly, 41. surprisingly, 42. perspective

ANSWERS: 43. pragmatic, 44. unfettered, 45. trait, 46. unfettered, 47. asteroid, 48. squeeze, 49. biology, 50. occasionally, 51. frustrate, 52. environment, 53. improvisation

63. stripes cha____tic of the zebra

64. the RSA al____hm

65. DC mo r control

- the action or process of changing to suit

- a typical feature or quality that can n. identify, tell apart, or describe something or somebody
- a set of rules or rigorous instructions n. typically used to solve a specific problem or to perform a computation
- a device that converts electricity, fuel, n. etc. into movement and makes a machine, vehicle, etc. work

ANSWERS: 54. advantage, 55. adaptation, 56. estimate, 57. breed, 58. exploration, 59. predict, 60. thrive, 61. drill, 62. suitable, 63. characteristic, 64. algorithm, 65. motor

ANSWERS: 66. geography, 67. robotic, 68. explore, 69. asteroid, 70. variation, 71. skeleton, 72. initial, 73. engineer, 74. gradual, 75. rough

ANSWERS: 76. evolve, 77. radical, 78. occasionally, 79. mimic, 80. mimicry, 81. amplify, 82. acquire, 83. resistance, 84. appropriate, 85. engineer, 86. virtual

a person whose job is designing,

adj. being actually such in almost every

though not in actual fact

building, or maintaining something such

as machines, structures, or software

respect; existing in essence or effect

85. en er shortage

86. trading of vi____I currencies

ANSWERS: 87. blueprint, 88. stack, 89. discovery, 90. mixture, 91. reproduction, 92. artifact, 93. constraint, 94. climate, 95. refined, 96. random

method, conscious decision, or any

regular pattern

97. re e a language to make something more pure, ν. polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development an interval during which a recurring 98. go to the workplace by cy e n. sequence of events occurs; a bicycle or motorcycle 99. si____te a future scenario to make a pretense of someone's ν. behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes the speed at which someone or 100. at your own pe n. something moves, or the rate at which something happens or changes 101. re ce by myself to make a copy of something such as a ν. picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process adj. made, done, or happening without 102. a ra m choice method, conscious decision, or any regular pattern 103. in t ancestral property to receive money, property, or a title from someone after they have died a tool or machine used for making 104. fire dr I round holes or driving fasteners; a training or practice a set of computer programs and 105. copyrighted so re n. associated documentation and data for doing particular computational jobs

ANSWERS: 97. refine, 98. cycle, 99. simulate, 100. pace, 101. reproduce, 102. random, 103. inherit, 104. drill, 105. software

- to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
- adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 106. adapt, 107. mineral, 108. surround, 109. blade, 110. satellite, 111. pragmatic, 112. autonomous, 113. antenna, 114. observe, 115. digital

115. di l'electronic signature

116. historical nol	n.	an extended fictional work in prose; usually in the form of a story; (adjective original and of a kind not seen before
117. kicrt the project	v.	to start something by providing an initia burst of energy or enthusiasm
118. a viI image	adj.	being actually such in almost every respect; existing in essence or effect though not in actual fact
119. ree oil	v.	to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
120. ime painting styles	v.	to copy the speech, behavior, appearance, etc. of someone or something
121. kinten class	n.	a school or class for young children, usually between the ages of four and six
122. ex-su conservation	adj.	short for "situated," meaning located or placed in a particular position or circumstance
123. my friend's chatic laugh	n.	a typical feature or quality that can identify, tell apart, or describe something or somebody
124. ope 24 hours a day	<i>v</i> .	to work in a particular way; to supervise something
125. gete more electricity	<i>v</i> .	to produce or create something; to make offspring by reproduction
126. equnt in meaning	n.	having the same value, quality, meaning, purpose, etc.

ANSWERS: 116. novel, 117. kick-start, 118. virtual, 119. refine, 120. imitate, 121. kindergarten, 122. situ, 123. characteristic, 124. operate, 125. generate, 126. equivalent

ANSWERS: 127. modern, 128. appropriate, 129. decide, 130. straightforward, 131. suddenly, 132. pursue, 133. harness, 134. surround, 135. sustainable, 136. imitate, 137. uniquely

ANSWERS: 138. trench, 139. nuclear, 140. inherit, 141. biology, 142. initial, 143. communicate, 144. ecology, 145. artifact, 146. communicate, 147. trait, 148. exploration

n.

148. an Arctic exp on

the activity of searching and finding out

about something through a place

149. the runner's pe the speed at which someone or n. something moves, or the rate at which something happens or changes 150. ev____on theory a gradual process of transformation of n. living things 151. tr___h excavator a long, deep ditch made in the ground, n. usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water 152. ex___e the world 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 153. a child with se____y issues adj. of or relating to the physical senses 154. au____ed manual transmission adj. carried out by machines or computers to replace or decrease human labor 155. permanent br n damage the organ inside the head that is n. responsible for one's movement, thought, memory, and feeling to imitate someone's speech, 156. mi c numerous instruments ν. movement, or behavior, especially to make others laugh a conspicuous disparity or difference 157. the g p between ideal and reality separates something such as a figure, people, their opinions, situation, etc. 158. ex____t a bad attitude to show something in public for people ν. to enjoy or to provide them with information

ANSWERS: 149. pace, 150. evolution, 151. trench, 152. explore, 153. sensory, 154. automated, 155. brain, 156. mimic, 157. gap, 158. exhibit

159. manually ope a machine	ν.	to work in a particular way; to supervise something
160. nol effect	n.	an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
161. genon gap	n.	all the people born and living at about the same time, regarded collectively; the production of heat or electricity
162. phyly and mentally	adv.	in a way related to a person's body or appearance rather than their mind
163. female ofng	n.	descendant; any immature animal or plant
164. perfect mie	n.	a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
165. a sey organ	adj.	of or relating to the physical senses
166. cove a child	<i>v</i> .	to have or develop an idea, a plan, etc. in mind; to become pregnant
167. cot research	<i>v</i> .	to organize and carry out a particular activity
168. unly different	adv.	in a way that is different from all others; in a way that is not shared by others
169. polon by insect	n.	the transfer of pollen from the male reproductive organs of one flower to the female reproductive organs of another flower, resulting in fertilization and the production of seeds

ANSWERS: 159. operate, 160. novel, 161. generation, 162. physically, 163. offspring, 164. mixture, 165. sensory, 166. conceive, 167. conduct, 168. uniquely, 169. pollination

ANSWERS: 170. adaptation, 171. adapt, 172. generation, 173. bat, 174. blade, 175. kindergarten, 176. frustrate, 177. robotic, 178. ecology

their physical environment

179.	sales repion	n.	the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
180.	susle alternative fuel	adj.	able to continue or be continued for a long time
181.	ret at a high temperature	<i>v</i> .	to take action in response to something
182.	the cye of the seasons	n.	an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
183.	fate a chemical	v.	to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
184.	high stk	n.	a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
185.	dee a question	v.	to make up someone's mind about something; to come to a conclusion or judgment after considering options
186.	inhble environment	adj.	harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
187.	a cold cle	n.	the weather in a particular location averaged over some long period
188.	the fonts of an earlier civilization	n.	a mark of a foot, shoe, or animal's foot left on a surface

ANSWERS: 179. representation, 180. sustainable, 181. react, 182. cycle, 183. fabricate, 184. stack, 185. decide, 186. inhospitable, 187. climate, 188. footprint

189. periods of drt	n.	a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
190. a lot of red sugar	adj.	made pure by having impurities or unwanted elements removed by processing
191. the closest exet to Earth	n.	a planet that orbits a star outside of the solar system
192. a picture fre	n.	a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
193. fay land	adj.	located at a geographically distant place; remote or separated by distance; distant or not easily accessible
194. take adge of his weak points	n.	a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
195. aued way	adj.	carried out by machines or computers to replace or decrease human labor
196. comty theory	n.	the state or quality of being complicated or intricate and difficult to understand
197. the fre of the policy	n.	a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
198. ana of insect	n.	an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

ANSWERS: 189. drought, 190. refined, 191. exoplanet, 192. frame, 193. faraway, 194. advantage, 195. automated, 196. complexity, 197. frame, 198. antenna

199. fay dream	adj.	located at a geographically distant place; remote or separated by distance; distant or not easily accessible
200. sore architect	n.	a set of computer programs and associated documentation and data for doing particular computational jobs
201. reve factors	adj.	considered and evaluated through comparison with something else
202. muon of DNA	n.	the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
203. indal freedom	n.	a single person or thing, as distinct from a group
204. the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
205. human evon	n.	a gradual process of transformation of living things
206. beam of elons	n.	a tiny particle with the negative electrical charge
207. locon control	n.	the action or ability to move from one place to another
208. ro_h estimation	adj.	not quite exact or correct; having or caused by an irregular surface
209. ve of ore	n.	a climbing plant that produces grapes; any plant with a growth habit of trailing or climbing stems
210. a meteorological sate	n.	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 199. faraway, 200. software, 201. relative, 202. mutation, 203. individual, 204. discovery, 205. evolution, 206. electron, 207. locomotion, 208. rough, 209. vine, 210. satellite

211. hereditary muon	n.	the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
212. amy the effect	<i>v</i> .	to enhance something, particularly sound or brightness
213. trte a document into English	<i>v</i> .	to convert or change words into another language
214. cross-con marriage	n.	the child of your aunt or uncle
215. the evoary process	adj.	relating to or denoting how living things develop or change from earlier forms
216. con's family	n.	the child of your aunt or uncle
217. make a strard dash	adj.	easy to do or understand, or simple; free from ambiguity
218. secret ingnts	n.	one of the things used to make something, especially one of the foods used to make a particular dish
219. equnt amounts	n.	having the same value, quality, meaning, purpose, etc.
220. fonts in the snow	n.	a mark of a foot, shoe, or animal's foot left on a surface
221. rece the painting	v.	to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
222. tue energy	n.	a machine that rotates to generate power from fluids such as water or gas
223. cognitive comty	n.	the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 211. mutation, 212. amplify, 213. translate, 214. cousin, 215. evolutionary, 216. cousin, 217. straightforward, 218. ingredient, 219. equivalent, 220. footprint, 221. reproduce, 222. turbine, 223. complexity

ANSWERS: 224. assembly, 225. process, 226. recycle, 227. ingredient, 228. mineral, 229. fabricate, 230. gap, 231. perspective

to grow vigorously; to make steady 232. th e on pressure ν. progress 233. sq___e a lemon to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness 234. bl nt for economic reform a photographic print of an early plan for n. a building or machine the act of defending oneself from an 235. res ce movement aggressor or refusing to accept something 236. as____ly hall a group of people who have been n. elected, especially one that meets regularly and makes decisions or laws for a specific region or country a device that converts electricity, fuel, 237. a mo r mechanic etc. into movement and makes a machine, vehicle, etc. work 238. mo___n poetry adj. of or belonging to the present time or recent times 239. ha___s a horse to a carriage to control and exploit the power of ν. 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 240. tu e aerofoil a machine that rotates to generate power from fluids such as water or gas adj. short for "situated," meaning located or 241. in-s u control placed in a particular position or circumstance

ANSWERS: 232. thrive, 233. squeeze, 234. blueprint, 235. resistance, 236. assembly, 237. motor, 238. modern, 239. harness, 240. turbine, 241. situ

242. barren of crve spirit	adj.	relating to or involving the use of skill and original and unusual ideas to create something
243. clr up the ladder	v.	to climb or move in an awkward, laborious, or ungraceful way, often using one's hands and feet
244. ace a new company	ν.	to buy or obtain something such as an asset, object, knowledge, etc., for oneself
245. rek a marketing plan	<i>v</i> .	to consider again a plan, idea, etc., especially to change it
246. a grl process	adj.	happening slowly over a long period of time or distance; not steep or abrupt
247. conion of the system	n.	the arrangement or pattern of something or a group of related things
248. the mesm for DNA replication	n.	a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
249. a remote reve	adj.	considered and evaluated through comparison with something else
250. colte with the police	v.	to work with someone else to produce or achieve something
251. produce ofng	n.	descendant; any immature animal or plant
252. floral miy	n.	the act or skill of copying the sounds or behavior of a particular person or animal, often to make people laugh
253. prt the future	<i>v</i> .	to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 242. creative, 243. clamber, 244. acquire, 245. rethink, 246. gradual, 247. configuration, 248. mechanism, 249. relative, 250. collaborate, 251. offspring, 252. mimicry, 253. predict

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

 durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems

v. to officially force a new law, tax, duty, etc. to be obeyed or received

ANSWERS: 254. rethink, 255. hardware, 256. optimize, 257. drought, 258. react, 259. electron, 260. accurate, 261. configuration, 262. generate, 263. brain, 264. hardware, 265. impose

264. the ha____re department

265. im___e harsher sanctions

266. kicrt the economy	<i>v</i> .	to start something by providing an initial burst of energy or enthusiasm
267. colte on a press release	<i>v</i> .	to work with someone else to produce or achieve something
268. non-fin bestseller	n.	the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
269. raist destruction	n.	a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
270. b_t an eye	n.	a nocturnal animal with wings that flies and feeds at night, similar to a mouse; a piece of wood with a handle used for hitting the ball in sports including baseball, cricket, and table tennis
271. suly attacked by an enemy	adv.	quickly and unexpectedly
272. gehy class	n.	a field of science devoted to the study of the lands, features, inhabitants, and phenomena of the Earth
273. clr over a boulder	<i>v</i> .	to climb or move in an awkward, laborious, or ungraceful way, often using one's hands and feet
274. binary repion	n.	the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
275. defense mesm	n.	a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
4NOWED 0 000 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	
ANSWERS: 266. kick-start, 267. collaborate 271. suddenly, 272. geography, 273. clamb		

n.	the act of making something up on the spot or creating or performing something without preparation
adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
adj.	harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
	adj.

ANSWERS: 276. improvisation, 277. nuclear, 278. inhospitable

Session 3: Fill in the Blanks

1.	The of the plant depends on the pollinators.
n.	the process by which organisms create offspring; the production of something similar to an original work
2.	I had to over the rocks to reach the cave.
v.	to climb or move in an awkward, laborious, or ungraceful way, often using one's hands and feet
3.	The country experienced a increase in population.
adj.	happening slowly over a long period of time or distance; not steep or abrupt
4.	The vehicle bounced along the mountain road.
adj.	not quite exact or correct; having or caused by an irregular surface
5.	By dividing and creating copies of themselves, bacteria
v.	to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
6.	We the season's total trade deficit at \$50 billion.
<i>v</i> .	to guess or calculate the cost, size, value, etc. of something
7.	the text from Italian into English.
v.	to convert or change words into another language
8.	The project's made it difficult for the team to complete it on time.
n.	the state or quality of being complicated or intricate and difficult to understand
	SWERS: 1. reproduction, 2. clamber, 3. gradual, 4. rough, 5. reproduce, 6. mated, 7. Translate, 8. complexity

41.	There is a lot of in the colors of flowers in the garden.
n.	the act or state of changing; a difference or change in the way something is done, made or said
42.	The process is crucial for the growth and reproduction of many plants.
n.	the transfer of pollen from the male reproductive organs of one flower to the female reproductive organs of another flower, resulting in fertilization and the production of seeds
43.	Having a healthy physique is essential for a great life.
adv	in a way related to a person's body or appearance rather than their mind
44.	One of the main of the new product is its increased efficiency.
n.	a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
45.	She is the president of the company.
adj	being actually such in almost every respect; existing in essence or effect though not in actual fact
46.	Truth is stranger than
n.	the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
47.	A remains productive throughout the year.
n.	a climbing plant that produces grapes; any plant with a growth habit of trailing or climbing stems
48.	Most countries prohibit sexual activity between certain close
adj	considered and evaluated through comparison with something else
	SWERS: 41. variation, 42. pollination, 43. physically, 44. advantages, 45. virtual, fiction, 47. vine, 48. relatives

49.	This animal in northern latitudes.
ν.	to keep animals for producing offspring in a regulated manner
50.	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
51.	That adventurer traveled in of buried treasure.
n.	a long or challenging search for something
52.	Who answers knows little.
adv	quickly and unexpectedly
53.	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
54.	The government should do more to support environmentally agriculture.
adj	able to continue or be continued for a long time
55.	The will repair my telephone tomorrow morning.
n.	a person whose job is designing, building, or maintaining something such as machines, structures, or software
56.	Many people are working together to close the gender
n.	a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
	SWERS: 49. breeds, 50. individual, 51. quest, 52. suddenly, 53. mimic, 54. stainable, 55. engineer, 56. gap

65	The paint was a of different pigments to achieve the desired color
n.	The paint was a of different pigments to achieve the desired color. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
66.	A was being dug alongside the road by workers.
n.	a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
67.	Their headquarters are in a skyscraper.
adj.	of or belonging to the present time or recent times
68.	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
	Energy-efficient are needed to maximize the cruising distance of electric vehicles.
n.	a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
70.	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
71.	This machine is too difficult to for me.
v.	to work in a particular way; to supervise something
	SWERS: 65. mixture, 66. trench, 67. modern, 68. robotic, 69. motors, 70. digital, operate

ething or
more
o create
w federal
n or
s used to
its, and
rs a day.
abor
34.

88. v.	Eyeless fish in dark caves. to develop gradually, or to cause the development of something or someone gradually			
89. v.	The management must strategies to increase office security. 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			
90. n.	Multiple genes may influence behavioral concurrently. a particular feature of your nature			
91. v.	We have to our company's product lineup for further growth. to consider again a plan, idea, etc., especially to change it			
92. n.	Her research team made an important the act or process of finding information, a place, or an object, or learning about something that was previously not known			
93.	The wind were spinning rapidly, generating clean energy for the nearby town. a machine that rotates to generate power from fluids such as water or gas			
94. n.	The robust economy of the country is based on its resources. a solid inorganic substance occurring in nature having a definite chemical composition			
95. n.	The company specializes in both hardware and a set of computer programs and associated documentation and data for doing particular computational jobs			
ANSWERS: 88. evolved, 89. explore, 90. traits, 91. rethink, 92. discovery, 93. turbines, 94. mineral, 95. software				

96. On	three sides, mountains	the settlement.	
v. to	be all around something or some	body	
	e European Central Bank is Europ		
n. ha	aving the same value, quality, mea	ariirig, purpose, e	ю.
98. She	e couldn't whether to orde	r the pizza or the	pasta for dinner.
	make up someone's mind about additions	something; to cor	me to a conclusion or
99. The	e cave was a habitat for		
pie	nocturnal animal with wings that fece of wood with a handle used for aseball, cricket, and table tennis		
100. We	e choose transportation that has a	smaller carbon _	•
n. a	mark of a foot, shoe, or animal's f	oot left on a surfa	ace
101. It v	would be to dress n	icely for the wed	ding.
adj. SU	uitable or proper in the circumstan	ces; fitting	
102. Th	e earthquake caused a of l	umber to crumble	e noisily.
	pile of something arranged or laid rough which combustion gases ar	•	
	e region has been experiencing a ortages and crop failures.	severe	_ leading to water
	long period of time during which the nortage of water and often causing	-	•
ANSWERS: 96. surround, 97. equivalent, 98. decide, 99. bats, 100. footprint, 101. appropriate, 102. stack, 103. drought,			

104.	Launching an artificial contributed to the technological development of our country.
n.	an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
105.	She still writes a short romance novel.
adv.	now and then; sometimes but not often
106.	She needed to her weight loss journey.
<i>v</i> .	to start something by providing an initial burst of energy or enthusiasm
107.	He was a leader who made decisions based on what was practical rather than ideal.
adj.	practical rather than idealistic
108.	The outermost shell determines the chemical properties of an atom.
n.	a tiny particle with the negative electrical charge
109.	How did he to your idea?
<i>v</i> .	to take action in response to something
	Many countries have now agreed to a treaty banning the use of weapons.
adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
111.	The detective looked for fingerprints on the window
n.	a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
	WERS: 104. satellite, 105. occasionally, 106. kick-start, 107. pragmatic, 108. tron, 109. react, 110. nuclear, 111. frame

112.	The athlete felt by her recent injury and performed with ease.
adj.	not constrained or restricted by limitations or rules; free, unrestricted, unbridled
113.	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
114.	Scientists studied the ancient to learn more about the creature's anatomy.
n.	the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
115.	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
116.	The company is working to its production process to be more efficient.
<i>v</i> .	to make something more pure, polished, cultured, or effective; to improve, perfect, or enhance through a process of purification or development
117.	It's notoriously challenging to birth rates.
ν.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
118.	After his death, his sons his business.
<i>v</i> .	to receive money, property, or a title from someone after they have died
	SWERS: 112. unfettered, 113. algorithm, 114. skeleton, 115. process, 116. refine, predict, 118. inherited

ANSWERS: 135. refined, 136. Climate, 137. impose, 138. cliff, 139. exhibit