

Englist.me



Vocabulary Builder Reference from...

Karen Willcox: How "digital twins" could help us predict the future | TED Talk

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

All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym: gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

smartphone

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

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

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

Technological advances have disrupted many industries.

marvel

n. someone something that causes feelings of wonder or surprise

synonym: wonder, phenomenon, amazement

(1) a **marvel** of beauty, (2) technical **marvel**

The space shuttle is a modern engineering **marvel**.

revolution

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

synonym: coup, innovation, rebellion

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

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

compute

v. to make a mathematical calculation

synonym: calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

element

n. a fundamental or essential part of something

synonym: component, feature, essence

(1) new design **elements**, (2) nonmetallic **elements**

Natural selection is an essential **element** in Darwin's theory of evolution.

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.

generic

adj. not specific; not linked to a particular brand or product

synonym: common, ordinary, typical

(1) a **generic** product, (2) **generic** version

The **generic** aspirin brand was just as effective as the name brand but much cheaper.

population

n. the total number of people in a country, region, or location

synonym: people, inhabitants, folk

(1) **population** change, (2) labor **population**

In just four years, the **population** has doubled.

personalize

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

synonym: customize, individualize, tailor

(1) **personalize** social media profile, (2) **personalize** my workspace

I like to **personalize** my phone case with a picture of my dog.

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.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

entirely

adv. completely

synonym: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to

blame

Later, his claim was found to be **entirely** false.

machine-learning

n. the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

(1) **machine-learning** method, (2) **machine-learning** processor

Many software engineers are developing applications to build **machine-learning** algorithms more quickly.

classify

v. to categorize or group something according to a system or set of criteria; to assign something to a particular class or category based on its characteristics or properties

synonym: categorize, sort, arrange

(1) **classify** images, (2) **classify** emails into folders

I need to **classify** these documents for the upcoming audit.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

physiological

adj. relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body

synonym: biological, organic, bodily

(1) **physiological** response, (2) **physiological** activity

The doctor explained the various **physiological** changes that occur during pregnancy.

equation

n. the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

(1) the **equation** of poverty with ignorance, (2) a chemical

equation

In this class, you will learn how to solve quadratic **equations**.

represent

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

synonym : depict, express, describe

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

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

cardiac

adj. of or relating to the heart or heart disease

(1) **cardiac** arrest, (2) **cardiac** disease

The **cardiac** output of a resting adult is around three quarts per minute.

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**.

circadian

adj. relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones

synonym : daily, diurnal, day-to-day

(1) **circadian** clock, (2) **circadian** disruption

Having a consistent sleep schedule is important for maintaining a healthy **circadian** rhythm.

rhythm

n. a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing

synonym : beat, cadence, tempo

(1) in samba **rhythm**, (2) irregular heart **rhythm**

He beat out a jazz **rhythm** on the cajones.

assimilate

v. to take in and understand information or ideas; to integrate

synonym : absorb, incorporate, integrate

(1) **assimilate** into society, (2) **assimilate** a language

The immigrant struggled to **assimilate** into the new culture.

continually

adv. in a way that happens without interruption or repeatedly

synonym : repeatedly, frequently, constantly

(1) **continually** access information, (2) **continually** changing world

Her tongue runs on **continually**.

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.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym : forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

recommendation

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

synonym : guidance, advice, suggestion

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

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

tailor

n. a person who makes, alters, or repairs clothing professionally, typically working in a tailor shop or boutique; (verb) to customize, modify, or adapt something to suit a particular purpose, need, or individual

synonym : seamster, designer, dressmaker

(1) **tailor-made** suit, (2) **tailor** your needs

I need to find a skilled **tailor** to alter my wedding dress.

dynamic

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

synonym : energetic, active, vital

(1) a **dynamic** market, (2) **dynamic** person

The sprinter has a **dynamic** way of running.

retail

n. the sale of goods or services to consumers, especially in small quantities, either directly to the end customer or through retail outlets

synonym : sales, trade, commerce

(1) **retail** store, (2) a **retail** dealer

The **retail** industry has been affected by the rise of online shopping.

entertainment

n. public shows, films, television, or other performances or activities of enjoying people

synonym : amusement, recreation, enjoyment

(1) an elegant **entertainment**, (2) hour of **entertainment**

The hotel is famous for its **entertainment**, including the casino.

engineer

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

synonym : architect, creator, builder

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

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

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym: detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

govern

v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

synonym: control, rule, preside

(1) a nation's right to **govern**, (2) **govern** a public enterprise

The regulations **governing** medical malpractice claims are rigorous.

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.

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.

unmanned

adj. not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft

synonym: uncrewed, automated, robotized

(1) an **unmanned** stop, (2) **unmanned** drone

The **unmanned** spacecraft landed on the asteroid.

aircraft

n. any vehicle that can fly and carry things or passengers, such as a plane or helicopter

synonym: airplane, plane, airliner

(1) an **aircraft** landing, (2) **aircraft** control system

The marine **aircraft** manufacturer demonstrated their newest hydroplane.

finite

adj. having a limit or restriction of size, time, etc.

synonym: delimited, defined, limited

(1) **finite** resources, (2) **finite** decimal

Human beings have a **finite** lifespan, so we yearn for the idea of immortality.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

quest

n. a long or challenging search for something

synonym: exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness

That adventurer traveled in **quest** of buried treasure.

takeoff

n. a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne

synonym: leaving, departure, liftoff

(1) vertical **takeoff**, (2) **takeoff** run

Our aircraft is now ready for **takeoff**.

dam

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

synonym: barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing
The break in the **dam** threatened the valley.

aggressive

adj. behaving in an angry, energetic, or threatening way towards another person; tending to spread quickly
synonym : assertive, combative, threatening

(1) an **aggressive** war, (2) an **aggressive** tumor
An **aggressive** tide wrecked the ship.

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.

twin

n. either of two children born at the same time from the same mother

(1) a **twin-lens** camera, (2) a **twin** room

Its **twin** brothers are difficult to tell apart except for their parents.

inspection

n. the act of examining, assessing, or reviewing something to ensure its accuracy, quality, safety, or compliance; the process of investigating or evaluating something

synonym : examination, review, scrutiny

(1) **inspection** report, (2) regular **inspection**

Before starting the project, the engineer performed an **inspection** of the construction site.

garage

n. a building or part of a building used to store a vehicle or vehicles, typically a car

synonym : carport, shed, barn

(1) electrical **garage** door, (2) **garage** repair

He parked his car in the private **garage**.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym : catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

differ

v. to be not like someone or something in some way

synonym : vary, diverge, disagree

(1) **differ** from the majority, (2) **differ** according to species

The two products **differed** in their quality and price.

variability

n. the fact or quality of something being likely to vary

synonym : variance, unevenness, inconstancy

(1) natural **variability**, (2) climate **variability**

There is considerable **variability** in all the test scores.

static

adj. not moving or not capable of moving, not changing or not capable of changing

synonym : immobile, unchanging, fixed

(1) **static** electricity, (2) **static** website

The **static** image on the screen took a lot of work to make out.

degrade

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

synonym : demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly**

insecure

Several cities are experiencing **incredibly** high unemployment rates.

operator

n. a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

synonym: controller, handler, manipulator

(1) **operator** error, (2) an elevator **operator**

The **operator** of the machine must follow strict safety protocols.

fleet

n. a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast

synonym: armada, flotilla, (adjective) speedy

(1) **fleet** of foot, (2) a **fleet** horse

We destroyed a **fleet** of 70 enemy ships.

cargo

n. the goods carried by ship, aircraft, or other vehicles

synonym: shipment, freight, burden

(1) plenty of **cargo** space, (2) unload the **cargo**

During the war, many **cargo** ships were converted into battleships.

delivery

n. the act of taking or sending something to a destination; the bringing of a baby during childbirth

synonym: sending, transporting, bringing

(1) an easy **delivery**, (2) special **delivery**

The **delivery** truck arrived with the packages.

drone

n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control

synonym: hum, whirr, idler

(1) **drone** flight, (2) the speaker's **drone**

He heard a **drone** of sirens roar from the neighboring town.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

optimal

adj. the best; most likely to be successful or advantageous

synonym: optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to survive.

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**.

neat

adj. clean or tidy, with everything in its place

synonym: tidy, uncluttered, refined

(1) a **neat** piece of work, (2) **neat** idea

She has **neat** habits.

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.

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.

spacecraft

n. a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

synonym : spaceship, satellite, probe

(1) **spacecraft** launch, (2) alien **spacecraft**

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

deploy

v. to move troops or weapons into a position or military action; to bring into something in an effective way

synonym : set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures

This country **deployed** its weapons in the east region.

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.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym : endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

malfunction

v. to fail to operate or work properly; to break down or stop functioning as expected or intended; (noun) a failure or defect in the way a machine, system, or device is supposed to operate

synonym : malfunction, break down, fail

(1) **malfunction** alarm, (2) **malfunction** and start moving unpredictably

The car's engine **malfunctioned** on the highway, so we had to call for a tow truck.

stranded

adj. left in a difficult or helpless position without access to help or resources; unable to move or proceed

synonym : marooned, stuck, abandoned

(1) **stranded** travelers, (2) financially **stranded**

After their car broke down, the family was **stranded** on the side of the highway for hours.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

ultimate

adj. furthest or highest in degree or order

synonym : highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury
Management must take **ultimate** responsibility for the accident.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym: spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

exciting

adj. causing a lot of interest or excitement

synonym: exhilarating, stimulating, thrilling

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

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

moving

adj. causing strong emotions or feelings, especially sadness or sympathy

synonym: emotional, poignant, touching

(1) **moving** experience, (2) **moving** ceremony

His **moving** speech about his struggles with addiction brought tears to the audience's eyes.

aerospace

adj. pertaining to the design, engineering, science, and technology related to the Earth's atmosphere and the exploration or use of space beyond it

synonym: aeronautical, space, aviation

(1) **aerospace** engineering, (2) **aerospace** and defense industry

NASA is an **aerospace** organization that explores space and improves aviation technology.

infrastructure

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

synonym: foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost
Aging societies tend to require huge costs for **infrastructure** maintenance.

structural

adj. associated with the way on construction or organization of anything

synonym: architectural, basic, anatomical

(1) **structural** analyses, (2) **structural** reorganization
The earthquake resulted in significant **structural** destruction.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully
They used a special receiver to **monitor** police radio channels.

maintenance

n. the act or process of keeping something, either artificial materials or living things, in good condition; the money needed for a person's or family's living expenses

synonym: care, perpetuation, support

(1) the **maintenance** of the car, (2) **maintenance** work
We have decided to extend our **maintenance** contract until next year.

efficiency

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

synonym: effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**
Our company must continue to strive for greater **efficiency**.

downtime

n. a period of time when a person or system is not active or operating, often due to technical issues or maintenance work

synonym: interruption, break, outage

(1) unexpected **downtime**, (2) system **downtime**

The factory had to schedule **downtime** for maintenance work, causing a temporary shutdown in production

reservoir

n. a natural or artificial lake used to store water for community use; a large or extra supply of something
synonym : pool, supply, repertoire

(1) a **reservoir** of facts, (2) water **reservoir**

The machine pumps up crude oil from a deep underground **reservoir**.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

medical

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

synonym : health, disease, treatment

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

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

assess

v. to judge or decide the nature or quality of someone or something

synonym : estimate, evaluate, consider

(1) **assess** a tax of 10 pounds, (2) **assess** the quality

Our company needs to **assess** the business impact of climate change.

diagnose

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

synonym : identify, analyze, interpret

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

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

treatment

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

synonym: remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet

The primary purpose of the **treatment** is pain relief.

silicon

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

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

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

complexity

n. 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.

cancer

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

synonym: tumor, carcinoma, malignancy

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

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

patient

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

synonym: client, recipient, subject

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

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

challenging

adj. difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

synonym : difficult, demanding, arduous

(1) **challenging** task, (2) mentally **challenging**

The advanced math problem was **challenging**, but the student was determined to solve it.

damage

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

synonym : harm, impair, injure

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

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

microscopic

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

synonym : infinitesimal, tiny, atomic

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

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

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.

medicinal

adj. of or relating to the treatment or cure of disease

synonym : curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

molecular

adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

synonym : microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

Molecular weight is the sum of all the atoms.

cellular

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

synonym : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

computation

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

synonym : calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

resolve

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

synonym : decide, determine, fix

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

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

microscopy

n. the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs

synonym : microanalysis, magnification

(1) clinical **microscopy**, (2) electron **microscopy**

The scientist used a **microscopy** technique to study the cells at a microscopic level.

intractable

adj. difficult to manage or control; stubborn or obstinate
synonym : obstinate, stubborn, unyielding

(1) **intractable** pain, (2) **intractable** situation

The **intractable** problem defied a solution.

supercomputer

n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing

synonym : high-performance computer, mainframe, giant computer

(1) **supercomputer** performance, (2) **supercomputer** technology

China has developed one of the world's fastest **supercomputers** for its space program.

era

n. a period that is distinct from others, typically in history
synonym : epoch, age, period

(1) dawn of a new **era**, (2) the **era** of the Renaissance

Political corruption was common throughout the postwar **era**.

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.

noisy

adj. making a lot of sounds, especially loud or disruptive sound

synonym : loud, cacophonous, clamorous

(1) **noisy** neighbor, (2) **noisy** party

The construction outside was creating a **noisy** distraction from my work.

indirect

adj. happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way

synonym : unintended, ambiguous, ancillary

(1) **indirect** taxation, (2) **indirect** lighting

He expressed his dissatisfaction in an **indirect** way.

measurement

n. the act or process of finding something's size, quantity, or degree

synonym: calculation, dimensions, size

(1) chest **measurement**, (2) a precise **measurement**

The **measurement** error of this industrial machine is less than one micrometer.

infer

v. to form an opinion or conclude that something is true based on existing facts

synonym: guess, deduce, assume

(1) **infer** quality from price, (2) **infer** the possibility

Animal desire and preference are always **inferred** from their behavior.

practitioner

n. a person who works in a profession or occupation, such as a doctor, lawyer, or teacher

synonym: professional, expert, specialist

(1) **practitioner** of Buddhism, (2) **practitioner** of law

She is a **practitioner** of traditional Chinese medicine.

organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

synonym: function, structure

(1) **organ** bleeding, (2) damage to internal **organs**

These infections have the potential to impact practically every **organ** system.

observation

n. the act or activity of carefully examining or monitoring something or someone

synonym: watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

characterize

v. to describe the distinctive nature or features of someone or something; to be a distinguishing feature of

synonym: describe, depict, portray

(1) **characterize** the relationship, (2) **characterize** his work

Their love of discovery and exploration often **characterizes** the adventurous spirit of the explorer.

notion

n. a general idea or understanding of something, particularly an abstract or complex concept; a belief or opinion, often one that is not based on solid evidence or facts

synonym: idea, concept, belief

(1) **notion** of success, (2) vague **notion**

The **notion** of time travel has long fascinated scientists and fiction writers alike.

encode

v. to convert information into a code or format suitable for storage or transmission

synonym: transcribe, convert

(1) **encode** data, (2) **encode** information

The software can **encode** and decode encrypted messages.

tumor

n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

synonym: neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

radiology

n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

synonym: medical imaging, radiography, radioscopy

(1) interventional **radiology**, (2) diagnostic **radiology**

The patient underwent a **radiology** scan to diagnose their medical condition.

temperature

n. the degree of hotness or coldness of a thing or place
synonym : climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric **temperature**

Cities around the world set records for highest **temperatures** this summer.

scenario

n. a description of possible actions or events in the future;
a written outline of a play, film, or literary work

synonym : plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different **scenarios**

The president prepared several possible **scenarios** for an enemy attack.

scalable

adj. capable of being easily expanded or increased in size,
number, or scale to meet changing demands

synonym : expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

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.

realm

n. a domain of activity, interest, or knowledge

synonym : domain, empire, kingdom

(1) public **realm**, (2) beyond the **realm** of possibility

Her passions are in the **realm** of real-world political affairs.

interdisciplinary

adj. (also "transdisciplinary") involving or combining several
academic disciplines or fields of study

synonym : multidisciplinary, transdisciplinary

(1) **interdisciplinary** research, (2) an **interdisciplinary** conference

The **interdisciplinary** approach to solving the problem involved experts from multiple fields working together.

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

faculty

n. an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge

synonym: capability, talent, aptitude

(1) a member of the **faculty**, (2) the illative **faculty** of the mind

This university's computer science **faculty** is world distinguished.

depart

v. to go away or leave, especially to start a journey

synonym: go away, leave, vacate

(1) arrive and **depart** on time, (2) **depart** from the faith

We **departed** before the temperature fell below zero.

tackle

v. to try to deal with a complex problem or situation

synonym: deal with, dive into, work on

(1) **tackle** the issue, (2) help **tackle** climate change

The government is determined to **tackle** sharp inflation.

provoke

v. to stimulate or give rise to a particular reaction or have a particular effect

synonym: stimulate, incite, encourage

(1) **provoke** a disease, (2) **provoke** a reaction

Her behavior **provoked** a quarrel between the couple.

imaginary

adj. existing only in someone's mind

synonym : fictional, ideal, fantastical

(1) **imaginary** number, (2) **imaginary** pregnancy

Little children tend to have **imaginary** friends.

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.

probable

adj. likely to happen or likely to be true

synonym : likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

dawn

n. the time of day when the sun's light starts to show in the sky

synonym : daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

stud

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

synonym : beam, scantling, framing

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

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

midst

n. the middle part of people or things

synonym : middle, core, bosom

(1) in the **midst** of the crowd, (2) in the **midst** of a scandal

He remained serene in the **midst** of turbulence.

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.

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.

colleague

n. one of a group of a coworker, especially in a profession or a business

synonym : coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

debris

n. broken or torn fragments of something

synonym : remains, remnants, garbage

(1) space **debris**, (2) pile of **debris**

Marine **debris** is a major continuous global problem.

domain

n. a specific sphere of influence or control; a specific field of knowledge or expertise

synonym : territory, realm, sphere

(1) **domain** of use, (2) a dependent **domain**

The company's **domain** in the market was expanding to new territories.

awareness

n. the fact or state of knowing something exists and is important

synonym : understanding, cognition, knowledge

(1) **awareness** of my ignorance, (2) raise public **awareness**

There has been a gradual but steady rise in environmental **awareness**.

geology

n. a science that deals with the history of the earth as recorded in rocks

synonym : earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym : determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

drill

n. 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.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

decision-maker

n. a person who makes important decisions, especially at a high level in an organization

(1) policy **decision-maker**, (2) act as a **decision-maker**

A wealth of information does not always have a positive impact on **decision-makers**.

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.

gulf

n. a large ocean inlet or deep bay that is partially enclosed by land

synonym : chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

surge

n. a sudden and great increase of something, such as a feeling, the amount or number, etc.

synonym : rush, spate, deluge

(1) a **surge** of shoppers, (2) the **surge** in foreign tourism

She drowned her **surge** of anger through her creative work.

hurricane

n. a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

synonym : cyclone, typhoon, storm

(1) a **hurricane** of applause, (2) the ravages of a **hurricane**

The devastating **hurricane** caused widespread damage and left many people homeless.

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.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

specific

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

synonym : particular, definite, distinct

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

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

dell

n. a small, secluded valley typically found in wooded areas

synonym : valley, glen, hollow

(1) **dell** valley, (2) **dell** landscape

The wooded **dell** was a peaceful place where one could escape the hustle and bustle of the city.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

enabling

adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

synonym : facilitating, empowering, authorized

(1) **enabling** infrastructure, (2) **enabling** mindset

Enabling technologies allows people with disabilities to lead more independent lives.

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.

outcome

n. the result or effect of an action, event, etc.

synonym : result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**

They awaited news of the **outcome** of the election.

Session 2: Spelling

1. ex____ng news *adj.* causing a lot of interest or excitement
2. number of different sc____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
3. an ai____ft landing *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
4. un____ed drone *adj.* not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
5. ci____an disruption *adj.* relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones
6. d__l valley *n.* a small, secluded valley typically found in wooded areas
7. ge____c version *adj.* not specific; not linked to a particular brand or product
8. crack of d__n *n.* the time of day when the sun's light starts to show in the sky
9. sc____le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
10. ex____e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 1. exciting, 2. scenario, 3. aircraft, 4. unmanned, 5. circadian, 6. dell, 7. generic, 8. dawn, 9. scalable, 10. excite

11. a letter of rec_____ion *n.* an official suggestion that something is good or suitable for a particular purpose or job
12. the illative fa_____y of the mind *n.* an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge
13. climate var_____ty *n.* the fact or quality of something being likely to vary
14. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
15. vertical ta_____f *n.* a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
16. the speaker's dr___e *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
17. en_____ly satisfied with the meal *adv.* completely
18. help ta_____e climate change *v.* to try to deal with a complex problem or situation
19. a nation's right to go_____n *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
20. con_____ly changing world *adv.* in a way that happens without interruption or repeatedly

ANSWERS: 11. recommendation, 12. faculty, 13. variability, 14. prediction, 15. takeoff, 16. drone, 17. entirely, 18. tackle, 19. govern, 20. continually

21. interventional ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
22. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
23. the mai_____ce of the car *n.* the act or process of keeping something, either artificial materials or living things, in good condition; the money needed for a person's or family's living expenses
24. pra_____ner of law *n.* a person who works in a profession or occupation, such as a doctor, lawyer, or teacher
25. the eq_____on of poverty with ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
26. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
27. a selfish de_____on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
28. tr_____te a document into English *v.* to convert or change words into another language

ANSWERS: 21. radiology, 22. molecular, 23. maintenance, 24. practitioner, 25. equation, 26. slide, 27. decision, 28. translate

29. a desirable ou____e *n.* the result or effect of an action, event, etc.
30. plenty of ca__o space *n.* the goods carried by ship, aircraft, or other vehicles
31. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
32. mo____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
33. system do____me *n.* a period of time when a person or system is not active or operating, often due to technical issues or maintenance work
34. follow his rec_____ions *n.* an official suggestion that something is good or suitable for a particular purpose or job
35. ass_____te into society *v.* to take in and understand information or ideas; to integrate
36. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
37. vague no____n *n.* a general idea or understanding of something, particularly an abstract or complex concept; a belief or opinion, often one that is not based on solid evidence or facts

ANSWERS: 29. outcome, 30. cargo, 31. cancer, 32. monitor, 33. downtime, 34. recommendation, 35. assimilate, 36. device, 37. notion

38. pr____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
39. as____s the quality *v.* to judge or decide the nature or quality of someone or something
40. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
41. sp____e snowfall *adj.* only in small quantities or numbers and often spread over a wide area
42. achieve op_____l health *adj.* the best; most likely to be successful or advantageous
43. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
44. en____e data *v.* to convert information into a code or format suitable for storage or transmission
45. ga____e repair *n.* a building or part of a building used to store a vehicle or vehicles, typically a car
46. a precise mea_____nt *n.* the act or process of finding something's size, quantity, or degree
47. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
48. co_____e the value *v.* to make a mathematical calculation
49. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 38. predict, 39. assess, 40. temperature, 41. sparse, 42. optimal, 43. maintain, 44. encode, 45. garage, 46. measurement, 47. smartphone, 48. compute, 49. predict

50. a re_____ir of facts *n.* a natural or artificial lake used to store water for community use; a large or extra supply of something
51. sup_____ter performance *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
52. traditional me_____al *adj.* of or relating to the treatment or cure of disease
53. the c__e of an apple *n.* the most essential or fundamental part of something
54. 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
55. d__l landscape *n.* a small, secluded valley typically found in wooded areas
56. op_____l for intellectual growth *adj.* the best; most likely to be successful or advantageous
57. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
58. a n__t piece of work *adj.* clean or tidy, with everything in its place

ANSWERS: 50. reservoir, 51. supercomputer, 52. medicinal, 53. core, 54. function, 55. dell, 56. optimal, 57. specific, 58. neat

59. an elegant ent_____ent *n.* public shows, films, television, or other performances or activities of enjoying people
60. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
61. di_____se with CT scans *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
62. fi_____e resources *adj.* having a limit or restriction of size, time, etc.
63. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
64. save the pl_____t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
65. a hu_____ne of applause *n.* a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)
66. pr_____e a disease *v.* to stimulate or give rise to a particular reaction or have a particular effect
67. ta_____e the issue *v.* to try to deal with a complex problem or situation
68. tr_____nt by diet *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

ANSWERS: 59. entertainment, 60. virtual, 61. diagnose, 62. finite, 63. revolution, 64. planet, 65. hurricane, 66. provoke, 67. tackle, 68. treatment

69. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
70. diagnostic ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
71. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
72. electron mic_____py *n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
73. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
74. 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
75. phy_____cal response *adj.* relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body
76. di_____se the problem *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis

ANSWERS: 69. astronaut, 70. radiology, 71. organ, 72. microscopy, 73. engineer, 74. launch, 75. physiological, 76. diagnose

77. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
78. per_____ze my workspace *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
79. in_____ct taxation *adj.* happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way
80. de_____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
81. obs_____on instrument *n.* the act or activity of carefully examining or monitoring something or someone
82. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone
83. dawn of a new e_a *n.* a period that is distinct from others, typically in history
84. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
85. a fl__t horse *n.* a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast

ANSWERS: 77. statistics, 78. personalize, 79. indirect, 80. decision, 81. observation, 82. observation, 83. era, 84. planet, 85. fleet

86. op____ze a process
v. to make the best or most effective use of something
87. an agg_____ve war
adj. behaving in an angry, energetic, or threatening way towards another person; tending to spread quickly
88. mal_____on alarm
v. to fail to operate or work properly; to break down or stop functioning as expected or intended; (noun) a failure or defect in the way a machine, system, or device is supposed to operate
89. temporary me_____l treatment
adj. relating to the treatment of illness or injuries; relating to the practice of medicine
90. a sp___e population
adj. only in small quantities or numbers and often spread over a wide area
91. mat_____cs competition
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
92. a re___l dealer
n. the sale of goods or services to consumers, especially in small quantities, either directly to the end customer or through retail outlets
93. horse s__d
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

ANSWERS: 86. optimize, 87. aggressive, 88. malfunction, 89. medical, 90. sparse, 91. mathematics, 92. retail, 93. stud

94. as___s a tax of 10 pounds *v.* to judge or decide the nature or quality of someone or something
95. ac____te measurements *adj.* correct and exact in all details
96. the ul____te goal in life *adj.* furthest or highest in degree or order
97. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
98. en___e information *v.* to convert information into a code or format suitable for storage or transmission
99. the dr__l hit the well *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
100. 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
101. 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
102. co____e chemically with another substance *v.* to join or merge to form a single thing or group
103. int____le situation *adj.* difficult to manage or control; stubborn or obstinate

ANSWERS: 94. assess, 95. accurate, 96. ultimate, 97. stick, 98. encode, 99. drill, 100. simulate, 101. movement, 102. combine, 103. intractable

104. new design el____ts *n.* a fundamental or essential part of something
105. en____ng mindset *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
106. the e_a of the Renaissance *n.* a period that is distinct from others, typically in history
107. an int_____ary conference *adj.* (also "transdisciplinary") involving or combining several academic disciplines or fields of study
108. per_____ze social media profile *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
109. wall s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
110. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
111. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 104. element, 105. enabling, 106. era, 107. interdisciplinary, 108. personalize, 109. stud, 110. astronaut, 111. computation

112. do___n of use *n.* a specific sphere of influence or control; a specific field of knowledge or expertise
113. 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
114. act as a dec_____ker *n.* a person who makes important decisions, especially at a high level in an organization
115. natural var_____ty *n.* the fact or quality of something being likely to vary
116. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
117. di___r from the majority *v.* to be not like someone or something in some way
118. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
119. an agg_____ve tumor *adj.* behaving in an angry, energetic, or threatening way towards another person; tending to spread quickly
120. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
121. unexpected do_____me *n.* a period of time when a person or system is not active or operating, often due to technical issues or maintenance work

ANSWERS: 112. domain, 113. launch, 114. decision-maker, 115. variability, 116. device, 117. differ, 118. gulf, 119. aggressive, 120. computation, 121. downtime

122. special de____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
123. sup_____ter technology *n.* a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
124. in the mi__t of a scandal *n.* the middle part of people or things
125. si_____n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
126. in samba rh___m *n.* a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing
127. n__t idea *adj.* clean or tidy, with everything in its place
128. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
129. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
130. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
131. policy dec_____ker *n.* a person who makes important decisions, especially at a high level in an organization

ANSWERS: 122. delivery, 123. supercomputer, 124. midst, 125. silicon, 126. rhythm, 127. neat, 128. gulf, 129. medicinal, 130. patient, 131. decision-maker

132. de___t from the faith *v.* to go away or leave, especially to start a journey
133. technical ma___l *n.* someone something that causes feelings of wonder or surprise
134. a member of the fa____y *n.* an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge
135. mo___g experience *adj.* causing strong emotions or feelings, especially sadness or sympathy
136. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
137. the qu__t for truth *n.* a long or challenging search for something
138. ae_____ce engineering *adj.* pertaining to the design, engineering, science, and technology related to the Earth's atmosphere and the exploration or use of space beyond it
139. int_____ary research *adj.* (also "transdisciplinary") involving or combining several academic disciplines or fields of study
140. di___r according to species *v.* to be not like someone or something in some way
141. mac_____ing method *n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

ANSWERS: 132. depart, 133. marvel, 134. faculty, 135. moving, 136. evolve, 137. quest, 138. aerospace, 139. interdisciplinary, 140. differ, 141. machine-learning

142. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
143. mo_____r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
144. mentally cha_____ng *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
145. manually op_____e a machine *v.* to work in a particular way; to supervise something
146. cha_____ng task *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
147. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
148. former co_____ue *n.* one of a group of a coworker, especially in a profession or a business
149. ae_____ce and defense industry *adj.* pertaining to the design, engineering, science, and technology related to the Earth's atmosphere and the exploration or use of space beyond it
150. tu__r at remote sites *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
151. in__r the possibility *v.* to form an opinion or conclude that something is true based on existing facts

ANSWERS: 142. institute, 143. monitor, 144. challenging, 145. operate, 146. challenging, 147. complexity, 148. colleague, 149. aerospace, 150. tumor, 151. infer

152. cha_____ize the relationship *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
153. tr_____te the emotion to a movement *v.* to convert or change words into another language
154. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
155. a GPS sa_____te *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.
156. en_____ng infrastructure *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
157. d_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
158. ai_____ft control system *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
159. crystalline si_____n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 152. characterize, 153. translate, 154. environment, 155. satellite, 156. enabling, 157. dam, 158. aircraft, 159. silicon

160. de____e his public image *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
161. fi___e decimal *adj.* having a limit or restriction of size, time, etc.
162. su___r bad grades *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
163. re____e the computer error *v.* to find a suitable answer to the problems or difficulty
164. da___e assessment *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
165. de___y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
166. clinical mic____py *n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
167. a su__e of shoppers *n.* a sudden and great increase of something, such as a feeling, the amount or number, etc.

ANSWERS: 160. degrade, 161. finite, 162. suffer, 163. resolve, 164. damage, 165. deploy, 166. microscopy, 167. surge

168. ca____c disease *adj.* of or relating to the heart or heart disease
169. 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
170. public re__m *n.* a domain of activity, interest, or knowledge
171. chest mea_____nt *n.* the act or process of finding something's size, quantity, or degree
172. int_____le pain *adj.* difficult to manage or control; stubborn or obstinate
173. no__y party *adj.* making a lot of sounds, especially loud or disruptive sound
174. st___c website *adj.* not moving or not capable of moving, not changing or not capable of changing
175. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
176. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
177. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
178. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape

ANSWERS: 168. cardiac, 169. efficient, 170. realm, 171. measurement, 172. intractable, 173. noisy, 174. static, 175. spacecraft, 176. stick, 177. operate, 178. capture

179. 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
180. an image se____r
- n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
181. motion se____r lighting
- n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
182. dy_____c person
- adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
183. 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
184. re_____e a dispute
- v.* to find a suitable answer to the problems or difficulty
185. im_____ry number
- adj.* existing only in someone's mind

ANSWERS: 179. function, 180. sensor, 181. sensor, 182. dynamic, 183. efficient, 184. resolve, 185. imaginary

186. aw_____ss of my ignorance *n.* the fact or state of knowing something exists and is important
187. arrive and de___t on time *v.* to go away or leave, especially to start a journey
188. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
189. dr___e flight *n.* a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
190. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
191. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
192. hour of ent_____ent *n.* public shows, films, television, or other performances or activities of enjoying people
193. mai_____ce work *n.* the act or process of keeping something, either artificial materials or living things, in good condition; the money needed for a person's or family's living expenses
194. ta___r your needs *n.* a person who makes, alters, or repairs clothing professionally, typically working in a tailor shop or boutique; (verb) to customize, modify, or adapt something to suit a particular purpose, need, or individual

ANSWERS: 186. awareness, 187. depart, 188. excite, 189. drone, 190. represent, 191. infrastructure, 192. entertainment, 193. maintenance, 194. tailor

195. da___e a relationship *v.* to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
196. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
197. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
198. op_____or error *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
199. ta___r-made suit *n.* a person who makes, alters, or repairs clothing professionally, typically working in a tailor shop or boutique; (verb) to customize, modify, or adapt something to suit a particular purpose, need, or individual
200. ins_____on report *n.* the act of examining, assessing, or reviewing something to ensure its accuracy, quality, safety, or compliance; the process of investigating or evaluating something

ANSWERS: 195. damage, 196. engineer, 197. resolution, 198. operator, 199. tailor, 200. inspection

201. first-aid tr_____nt *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
202. im_____ry pregnancy *adj.* existing only in someone's mind
203. an easy de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
204. co_____e an average score *v.* to make a mathematical calculation
205. the su__e in foreign tourism *n.* a sudden and great increase of something, such as a feeling, the amount or number, etc.
206. nonmetallic el_____ts *n.* a fundamental or essential part of something
207. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
208. a meteorological sa_____te *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.
209. fl__t of foot *n.* a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast
210. su____r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 201. treatment, 202. imaginary, 203. delivery, 204. compute, 205. surge, 206. element, 207. dam, 208. satellite, 209. fleet, 210. suffer

211. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
212. improved student ou____es *n.* the result or effect of an action, event, etc.
213. raise public aw____ss *n.* the fact or state of knowing something exists and is important
214. ca____c arrest *adj.* of or relating to the heart or heart disease
215. official sta____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
216. 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
217. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
218. in____ct lighting *adj.* happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way
219. laws of ph____s *n.* the science of matter and energy and their interactions
220. c__e business activity *n.* the most essential or fundamental part of something

ANSWERS: 211. specific, 212. outcome, 213. awareness, 214. cardiac, 215. statistics, 216. digital, 217. cancer, 218. indirect, 219. physics, 220. core

221. local ge____y *n.* a science that deals with the history of the earth as recorded in rocks
222. pra_____ner of Buddhism *n.* a person who works in a profession or occupation, such as a doctor, lawyer, or teacher
223. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
224. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
225. pr_____le cause of a fire *adj.* likely to happen or likely to be true
226. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
227. fire dr__l *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
228. co_____e augmented reality *v.* to join or merge to form a single thing or group
229. on a qu__t for happiness *n.* a long or challenging search for something
230. mal_____on and start moving unpredictably *v.* to fail to operate or work properly; to break down or stop functioning as expected or intended; (noun) a failure or defect in the way a machine, system, or device is supposed to operate

ANSWERS: 221. geology, 222. practitioner, 223. environment, 224. structure, 225. probable, 226. molecular, 227. drill, 228. combine, 229. quest, 230. malfunction

231. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
232. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
233. tec_____cal policy *adj.* based on scientific and industrial progress
234. the ravages of a hu_____ne *n.* a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)
235. ci_____an clock *adj.* relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones
236. dynamically sc_____le *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
237. 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
238. a ge_____c product *adj.* not specific; not linked to a particular brand or product
239. a ma____l of beauty *n.* someone something that causes feelings of wonder or surprise

ANSWERS: 231. microscopic, 232. patient, 233. technological, 234. hurricane, 235. circadian, 236. scalable, 237. simulate, 238. generic, 239. marvel

240. tec_____cal advancement *adj.* based on scientific and industrial progress
241. beginning of the industrial
rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
242. labor pop_____on *n.* the total number of people in a country, region, or location
243. de_____e environmental quality *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
244. better fuel eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
245. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
246. nuclear ph_____s *n.* the science of matter and energy and their interactions
247. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
248. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
249. an elevator op_____or *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

ANSWERS: 240. technological, 241. revolution, 242. population, 243. degrade, 244. efficiency, 245. biomedical, 246. physics, 247. geology, 248. critic, 249. operator

250. ass_____te a language *v.* to take in and understand information or ideas; to integrate
251. 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
252. cha_____ize his work *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
253. in__r quality from price *v.* to form an opinion or conclude that something is true based on existing facts
254. unload the ca__o *n.* the goods carried by ship, aircraft, or other vehicles
255. a ce_____ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
256. a private ind_____al *n.* a single person or thing, as distinct from a group
257. 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
258. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 250. assimilate, 251. digital, 252. characterize, 253. infer, 254. cargo, 255. cellular, 256. individual, 257. movement, 258. evolve

259. mo___g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
260. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
261. pile of de___s *n.* broken or torn fragments of something
262. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
263. an un_____ed stop *adj.* not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
264. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
265. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
266. tu__r growth *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
267. the ul_____te luxury *adj.* furthest or highest in degree or order
268. a chemical eq_____on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
269. no__y neighbor *adj.* making a lot of sounds, especially loud or disruptive sound

ANSWERS: 259. moving, 260. scenario, 261. debris, 262. incredibly, 263. unmanned, 264. incredibly, 265. structure, 266. tumor, 267. ultimate, 268. equation, 269. noisy

270. in the mi__t of the crowd	<i>n.</i> the middle part of people or things
271. ind_____al freedom	<i>n.</i> a single person or thing, as distinct from a group
272. pr_____e a reaction	<i>v.</i> to stimulate or give rise to a particular reaction or have a particular effect
273. st___c electricity	<i>adj.</i> not moving or not capable of moving, not changing or not capable of changing
274. inf_____ure cost	<i>n.</i> the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
275. a dependent do___n	<i>n.</i> a specific sphere of influence or control; a specific field of knowledge or expertise
276. alien spa_____ft	<i>n.</i> a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
277. gloomy pre_____ons	<i>n.</i> the act of predicting the future by reasoning; a statement made about the future
278. regular ins_____on	<i>n.</i> the act of examining, assessing, or reviewing something to ensure its accuracy, quality, safety, or compliance; the process of investigating or evaluating something
279. ce_____ar and molecular biology	<i>adj.</i> of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

ANSWERS: 270. midst, 271. individual, 272. provoke, 273. static, 274. infrastructure, 275. domain, 276. spacecraft, 277. prediction, 278. inspection, 279. cellular

280. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
281. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
282. water re_____ir *n.* a natural or artificial lake used to store water for community use; a large or extra supply of something
283. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
284. sl__e a glance *v.* to move or cause to move smoothly along a surface without interruption
285. ex_____ng football player *adj.* causing a lot of interest or excitement
286. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
287. mac_____ing processor *n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data
288. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
289. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
290. con_____ly access information *adv.* in a way that happens without interruption or repeatedly

ANSWERS: 280. maintain, 281. represent, 282. reservoir, 283. microscopic, 284. slide, 285. exciting, 286. complexity, 287. machine-learning, 288. temperature, 289. mathematics, 290. continually

291. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
292. go____n a public enterprise *v.* to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services
293. damage to internal or__ns *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
294. a t__n-lens camera *n.* either of two children born at the same time from the same mother
295. irregular heart rh____m *n.* a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing
296. beyond the re__m of possibility *n.* a domain of activity, interest, or knowledge
297. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
298. electrical ga____e door *n.* a building or part of a building used to store a vehicle or vehicles, typically a car
299. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
300. de____y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way

ANSWERS: 291. resolution, 292. govern, 293. organ, 294. twin, 295. rhythm, 296. realm, 297. climate, 298. garage, 299. smartphone, 300. deploy

301. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
302. cl_____fy emails into folders *v.* to categorize or group something according to a system or set of criteria; to assign something to a particular class or category based on its characteristics or properties
303. a t____n room *n.* either of two children born at the same time from the same mother
304. str_____al analyses *adj.* associated with the way on construction or organization of anything
305. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
306. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
307. st_____ed travelers *adj.* left in a difficult or helpless position without access to help or resources; unable to move or proceed
308. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
309. op_____ze control for cooling *v.* to make the best or most effective use of something
310. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
311. str_____al reorganization *adj.* associated with the way on construction or organization of anything

ANSWERS: 301. capture, 302. classify, 303. twin, 304. structural, 305. virtual, 306. efficiency, 307. stranded, 308. colleague, 309. optimize, 310. medical, 311. structural

312. ta_____f run *n.* a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
313. a dy_____c market *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
314. financially st_____ed *adj.* left in a difficult or helpless position without access to help or resources; unable to move or proceed
315. he was en_____ly to blame *adv.* completely
316. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
317. no____n of success *n.* a general idea or understanding of something, particularly an abstract or complex concept; a belief or opinion, often one that is not based on solid evidence or facts
318. space de_____s *n.* broken or torn fragments of something
319. a cold cl_____e *n.* the weather in a particular location averaged over some long period
320. phy_____cal activity *adj.* relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body

ANSWERS: 312. takeoff, 313. dynamic, 314. stranded, 315. entirely, 316. biomedical, 317. notion, 318. debris, 319. climate, 320. physiological

321. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
322. provide ac____te information *adj.* correct and exact in all details
323. cl____fy images *v.* to categorize or group something according to a system or set of criteria; to assign something to a particular class or category based on its characteristics or properties
324. re___l store *n.* the sale of goods or services to consumers, especially in small quantities, either directly to the end customer or through retail outlets
325. pop_____on change *n.* the total number of people in a country, region, or location
326. research in_____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
327. the wan light of d__n *n.* the time of day when the sun's light starts to show in the sky
328. pr_____le outcome *adj.* likely to happen or likely to be true

ANSWERS: 321. critic, 322. accurate, 323. classify, 324. retail, 325. population, 326. institute, 327. dawn, 328. probable

Session 3: Fill in the Blanks

1. The doctor carefully examined the _____ medical history.
n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
2. We _____ before the temperature fell below zero.
v. to go away or leave, especially to start a journey
3. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
4. He bought a new _____ to attach the strap to his watch.
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
5. He heard a _____ of sirens roar from the neighboring town.
n. a low continuous humming noise; someone who takes more time than necessary; a pilot-less aerial vehicle that is operated by remote control
6. Our company must continue to strive for greater _____.
n. the state or quality of doing something well with no waste of input such as time or money
7. In this class, you will learn how to solve quadratic _____.
n. the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

ANSWERS: 1. patient's, 2. departed, 3. predict, 4. stud, 5. drone, 6. efficiency, 7. equations

8. _____ is the second most abundant element on earth after oxygen.
- n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
9. He studied the _____ of radiation.
- n.* the science of matter and energy and their interactions
10. The wooded _____ was a peaceful place where one could escape the hustle and bustle of the city.
- n.* a small, secluded valley typically found in wooded areas
11. The essence of economics is to _____ the allocation of limited resources.
- v.* to make the best or most effective use of something
12. 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.
13. You should not _____ yourself by allowing them to use you.
- v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
14. The construction outside was creating a _____ distraction from my work.
- adj.* making a lot of sounds, especially loud or disruptive sound
15. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 8. Silicon, 9. physics, 10. dell, 11. optimize, 12. satellite, 13. degrade, 14. noisy, 15. stick

16. I always carry a backup _____ in case my phone runs out of battery.
- n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
17. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.
- n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
18. He parked his car in the private _____.
- n.* a building or part of a building used to store a vehicle or vehicles, typically a car
19. Hydrogen and oxygen _____ to form water.
- v.* to join or merge to form a single thing or group
20. This device is used to _____ brain cancer and other tumors.
- v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
21. The shuttle _____ trained for months before embarking on the space mission.
- n.* a person trained by a space agency to travel outside the Earth's atmosphere
22. Animal desire and preference are always _____ from their behavior.
- v.* to form an opinion or conclude that something is true based on existing facts
23. The _____ of the machine must follow strict safety protocols.
- n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

ANSWERS: 16. device, 17. computation, 18. garage, 19. combine, 20. diagnose, 21. astronaut, 22. inferred, 23. operator

24. We destroyed a _____ of 70 enemy ships.
- n.* a group of military ships, aircraft, etc., operating together under the same ownership; (adjective) moving very fast
25. 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
26. The human-crewed _____ successfully landed on the moon, fulfilling its mission.
- n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
27. 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
28. This factory employs a _____ manufacturing system.
- adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
29. 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
30. In the hospital, she will remain under constant _____.
- n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 24. fleet, 25. complexity, 26. spacecraft, 27. function, 28. cellular, 29. individual, 30. observation

31. The _____ demonstrate that poverty and unemployment are genuine problems.
- n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
32. The older man _____ from arthritis and finds it difficult to move around.
- v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
33. The software can _____ and decode encrypted messages.
- v.* to convert information into a code or format suitable for storage or transmission
34. The patient underwent a _____ scan to diagnose their medical condition.
- n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
35. Missile assaults on the capital continued around _____.
- n.* the time of day when the sun's light starts to show in the sky
36. The sprinter has a _____ way of running.
- adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
37. There has been a gradual but steady rise in environmental _____.
- n.* the fact or state of knowing something exists and is important
38. Many software engineers are developing applications to build _____ algorithms more quickly.
- n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

ANSWERS: 31. statistics, 32. suffers, 33. encode, 34. radiology, 35. dawn, 36. dynamic, 37. awareness, 38. machine-learning

39. She is a _____ of traditional Chinese medicine.

n. a person who works in a profession or occupation, such as a doctor, lawyer, or teacher

40. The _____ problem defied a solution.

adj. difficult to manage or control; stubborn or obstinate

41. 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

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

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

43. They awaited news of the _____ of the election.

n. the result or effect of an action, event, etc.

44. Cities around the world set records for highest _____ this summer.

n. the degree of hotness or coldness of a thing or place

45. This region has many _____ offering higher education.

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

46. The _____ truck arrived with the packages.

n. the act of taking or sending something to a destination; the bringing of a baby during childbirth

ANSWERS: 39. practitioner, 40. intractable, 41. simulate, 42. operate, 43. outcome, 44. temperatures, 45. institutes, 46. delivery

47. The _____ error of this industrial machine is less than one micrometer.

n. the act or process of finding something's size, quantity, or degree

48. This university's computer science _____ is world distinguished.

n. an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge

49. Management must take _____ responsibility for the accident.

adj. furthest or highest in degree or order

50. Aging societies tend to require huge costs for _____ maintenance.

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

51. The _____ output of a resting adult is around three quarts per minute.

adj. of or relating to the heart or heart disease

52. After their car broke down, the family was _____ on the side of the highway for hours.

adj. left in a difficult or helpless position without access to help or resources; unable to move or proceed

53. Little children tend to have _____ friends.

adj. existing only in someone's mind

54. An _____ tide wrecked the ship.

adj. behaving in an angry, energetic, or threatening way towards another person; tending to spread quickly

ANSWERS: 47. measurement, 48. faculty, 49. ultimate, 50. infrastructure, 51. cardiac, 52. stranded, 53. imaginary, 54. aggressive

55. I tried to _____ the efficiency of the investment.

v. to make a mathematical calculation

56. Marine _____ is a major continuous global problem.

n. broken or torn fragments of something

57. _____ weight is the sum of all the atoms.

adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

58. We made a _____ to the client.

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

59. I need to _____ these documents for the upcoming audit.

v. to categorize or group something according to a system or set of criteria; to assign something to a particular class or category based on its characteristics or properties

60. The earthquake resulted in significant _____ destruction.

adj. associated with the way on construction or organization of anything

61. The government is determined to _____ sharp inflation.

v. to try to deal with a complex problem or situation

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

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

63. They used a special receiver to _____ police radio channels.

v. to observe, check, and track the progress or quality of something over a period of time

ANSWERS: 55. compute, 56. debris, 57. Molecular, 58. recommendation, 59. classify, 60. structural, 61. tackle, 62. microscopic, 63. monitor

64. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
65. I decided to seek counseling on the advice of my _____.
n. one of a group of a coworker, especially in a profession or a business
66. The factory had to schedule _____ for maintenance work, causing a temporary shutdown in production
n. a period of time when a person or system is not active or operating, often due to technical issues or maintenance work
67. The company's new software is highly _____ allowing it to handle increasing number of users.
adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands
68. Natural selection is an essential _____ in Darwin's theory of evolution.
n. a fundamental or essential part of something
69. These gas nebulas are merely newborn galactic _____.
n. the most essential or fundamental part of something
70. During the war, many _____ ships were converted into battleships.
n. the goods carried by ship, aircraft, or other vehicles
71. Wild animals need to go forward with the _____ action to survive.
adj. the best; most likely to be successful or advantageous
72. The hotel is famous for its _____ including the casino.
n. public shows, films, television, or other performances or activities of enjoying people

ANSWERS: 64. exciting, 65. colleague, 66. downtime, 67. scalable, 68. element, 69. cores, 70. cargo, 71. optimal, 72. entertainment,

73. The company's _____ in the market was expanding to new territories.
n. a specific sphere of influence or control; a specific field of knowledge or expertise
74. Our aircraft is now ready for _____.
n. a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
75. She has _____ habits.
adj. clean or tidy, with everything in its place
76. The scientist conducted a study that provided _____ details about the species' behavior.
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
77. These infections have the potential to impact practically every _____ system.
n. a part of the body of an animal or plant that has a particular purpose and performs a specific job
78. He beat out a jazz _____ on the cajones.
n. a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing
79. _____ and weather have an impact on every part of our lifestyles.
n. the weather in a particular location averaged over some long period
80. I like to _____ my phone case with a picture of my dog.
v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 73. domain, 74. takeoff, 75. neat, 76. specific, 77. organ, 78. rhythm, 79. Climate, 80. personalize

81. Later, his claim was found to be _____ false.
adv. completely
82. The marine _____ manufacturer demonstrated their newest hydroplane.
n. any vehicle that can fly and carry things or passengers, such as a plane or helicopter
83. We have decided to extend our _____ contract until next year.
n. the act or process of keeping something, either artificial materials or living things, in good condition; the money needed for a person's or family's living expenses
84. Human beings have a _____ lifespan, so we yearn for the idea of immortality.
adj. having a limit or restriction of size, time, etc.
85. China has developed one of the world's fastest _____ for its space program.
n. a computer with a high level of computing power and speed, typically used for scientific or engineering computations that require immense amounts of data processing
86. In just four years, the _____ has doubled.
n. the total number of people in a country, region, or location
87. Before starting the project, the engineer performed an _____ of the construction site.
n. the act of examining, assessing, or reviewing something to ensure its accuracy, quality, safety, or compliance; the process of investigating or evaluating something

ANSWERS: 81. entirely, 82. aircraft, 83. maintenance, 84. finite, 85. supercomputers, 86. population, 87. inspection

88. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress
89. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
90. He expressed his dissatisfaction in an _____ way.
adj. happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way
91. He was a visiting _____ professor at the University of Tokyo.
n. a science that deals with the history of the earth as recorded in rocks
92. The patient was diagnosed with a _____ in her lung.
n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
93. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
94. The president prepared several possible _____ for an enemy attack.
n. a description of possible actions or events in the future; a written outline of a play, film, or literary work
95. 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

ANSWERS: 88. Technological, 89. incredibly, 90. indirect, 91. geology, 92. tumor, 93. Biomedical, 94. scenarios, 95. efficient

96. Our company needs to _____ the business impact of climate change.

v. to judge or decide the nature or quality of someone or something

97. It seems _____ that he has forgotten our scheduled meeting.

adj. likely to happen or likely to be true

98. His _____ speech about his struggles with addiction brought tears to the audience's eyes.

adj. causing strong emotions or feelings, especially sadness or sympathy

99. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

100. The regulations _____ medical malpractice claims are rigorous.

v. to legally control and direct a country, city, group of people, etc. and be responsible for introducing new laws, organizing and maintaining public services

101. _____ the text from Italian into English.

v. to convert or change words into another language

102. The immigrant struggled to _____ into the new culture.

v. to take in and understand information or ideas; to integrate

103. Her passions are in the _____ of real-world political affairs.

n. a domain of activity, interest, or knowledge

104. _____ technologies allows people with disabilities to lead more independent lives.

adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

ANSWERS: 96. assess, 97. probable, 98. moving, 99. medicinal, 100. governing, 101. Translate, 102. assimilate, 103. realm, 104. Enabling

105. I need to find a skilled _____ to alter my wedding dress.
- n.* a person who makes, alters, or repairs clothing professionally, typically working in a tailor shop or boutique; (verb) to customize, modify, or adapt something to suit a particular purpose, need, or individual
106. The space shuttle is a modern engineering _____.
- n.* someone something that causes feelings of wonder or surprise
107. I need to _____ my car regularly to prevent any major mechanical issues.
- v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
108. The doctor explained the various _____ changes that occur during pregnancy.
- adj.* relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body
109. NASA is an _____ organization that explores space and improves aviation technology.
- adj.* pertaining to the design, engineering, science, and technology related to the Earth's atmosphere and the exploration or use of space beyond it
110. 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
111. The scientist used a _____ technique to study the cells at a microscopic level.
- n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs

ANSWERS: 105. tailor, 106. marvel, 107. maintain, 108. physiological, 109. aerospace, 110. movement, 111. microscopy

112. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
113. The _____ team worked quickly to save the patient's life.
adj. relating to the treatment of illness or injuries; relating to the practice of medicine
114. The _____ spacecraft landed on the asteroid.
adj. not having a human crew or operator, as in unmanned aerial vehicles (UAVs) or unmanned spacecraft
115. The two products _____ in their quality and price.
v. to be not like someone or something in some way
116. The official transcript contains _____ academic records.
adj. correct and exact in all details
117. Several military _____ programs have become popular methods of exercise.
n. a tool or machine used for making round holes or driving fasteners; a training or practice
118. Their love of discovery and exploration often _____ the adventurous spirit of the explorer.
v. to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
119. These results muddied the _____.
n. the act of predicting the future by reasoning; a statement made about the future

ANSWERS: 112. structure, 113. medical, 114. unmanned, 115. differed, 116. accurate, 117. drill, 118. characterizes, 119. prediction

120. The _____ industry has been affected by the rise of online shopping.
- n.* the sale of goods or services to consumers, especially in small quantities, either directly to the end customer or through retail outlets
121. The machine pumps up crude oil from a deep underground _____.
- n.* a natural or artificial lake used to store water for community use; a large or extra supply of something
122. A wealth of information does not always have a positive impact on _____.
- n.* a person who makes important decisions, especially at a high level in an organization
123. 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
124. The _____ of time travel has long fascinated scientists and fiction writers alike.
- n.* a general idea or understanding of something, particularly an abstract or complex concept; a belief or opinion, often one that is not based on solid evidence or facts
125. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
126. There is considerable _____ in all the test scores.
- n.* the fact or quality of something being likely to vary

ANSWERS: 120. retail, 121. reservoir, 122. decision-makers, 123. launch, 124. notion, 125. evolved, 126. variability

127. The advanced math problem was _____ but the student was determined to solve it.

adj. difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

128. He made a New Year's _____ to exercise more and eat healthier.

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

129. Its _____ brothers are difficult to tell apart except for their parents.

n. either of two children born at the same time from the same mother

130. This country _____ its weapons in the east region.

v. to move troops or weapons into a position or military action; to bring into something in an effective way

131. She drowned her _____ of anger through her creative work.

n. a sudden and great increase of something, such as a feeling, the amount or number, etc.

132. 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

133. The car's engine _____ on the highway, so we had to call for a tow truck.

v. to fail to operate or work properly; to break down or stop functioning as expected or intended; (noun) a failure or defect in the way a machine, system, or device is supposed to operate

ANSWERS: 127. challenging, 128. resolution, 129. twin, 130. deployed, 131. surge, 132. virtual, 133. malfunctioned

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

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

135. The _____ will repair my telephone tomorrow morning.

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

136. Having a consistent sleep schedule is important for maintaining a healthy _____ rhythm.

adj. relating to a physiological cycle that lasts approximately 24 hours, impacting physical and behavioral changes that occur over the course of a day, such as sleep-wake cycles or fluctuations in hormones

137. The primary purpose of the _____ is pain relief.

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

138. She was struggling to make a _____ between two job offers.

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

139. During the surgery, the doctor had to be extremely cautious not to _____ a blood vessel.

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

140. This automatic door could no longer be opened due to a _____ failure.

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

ANSWERS: 134. slide, 135. engineer, 136. circadian, 137. treatment, 138. decision, 139. damage, 140. sensor

141. Internet traffic volumes have increased significantly with the advent of _____.

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

142. Advocates for legal reform hear less harsh words from their _____.

n. someone who expresses opinions about the quality of books, music, etc.

143. Political corruption was common throughout the postwar ____.

n. a period that is distinct from others, typically in history

144. Her behavior _____ a quarrel between the couple.

v. to stimulate or give rise to a particular reaction or have a particular effect

145. The ____ of Mexico is a body of water in the southern United States.

n. a large ocean inlet or deep bay that is partially enclosed by land

146. Her tongue runs on _____.

adv. in a way that happens without interruption or repeatedly

147. The _____ approach to solving the problem involved experts from multiple fields working together.

adj. (also "transdisciplinary") involving or combining several academic disciplines or fields of study

148. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

149. 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

ANSWERS: 141. smartphones, 142. critics, 143. era, 144. provoked, 145. Gulf, 146. continually, 147. interdisciplinary, 148. excited, 149. digital

150. Breast _____ is the most common type of cancer in women.

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

151. The break in the ____ threatened the valley.

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

152. The _____ by the citizen resulted in a redistribution of wealth.

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

153. He has a flair for _____.

- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

154. He remained serene in the _____ of turbulence.

- n.* the middle part of people or things

155. The _____ aspirin brand was just as effective as the name brand but much cheaper.

- adj.* not specific; not linked to a particular brand or product

156. Mercury is the closest _____ to the sun.

- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

157. We elected him to _____ us at the international conference.

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

ANSWERS: 150. cancer, 151. dam, 152. revolution, 153. mathematics, 154. midst, 155. generic, 156. planet, 157. represent

158. That adventurer traveled in _____ of buried treasure.

n. a long or challenging search for something

159. The devastating _____ caused widespread damage and left many people homeless.

n. a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

160. I was able to _____ the moment on film.

v. to catch a person or an animal and confine them in an area which they cannot escape

161. There is a _____ area between galaxies.

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

162. This company _____ its battery problem completely.

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

163. 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

164. The _____ image on the screen took a lot of work to make out.

adj. not moving or not capable of moving, not changing or not capable of changing

ANSWERS: 158. quest, 159. hurricane, 160. capture, 161. sparse, 162. resolves, 163. environment, 164. static