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Vittorio Loreto: Need a new idea? Start at the edge of what is known | TED Talk

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

All Words

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Session 1: Word List

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

astonishing

adj. surprising or shocking; difficult to believe

synonym: surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone who knew her.

achievement

n. a thing that someone has accomplished, primarily through their effort and ability

synonym: accomplishment, attainment, triumph

(1) student **achievement**, (2) a remarkable **achievement**

This **achievement** has never been formally accepted.

genius

n. someone who has exceptional intellectual ability and originality

synonym: brilliance, brainiac, acumen

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

Mozart was a musical **genius**.

alien

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

synonym: foreigner, unfamiliar, unknown

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

Alien species have drastically altered the ecosystem in this area.

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.

definitely

adv. without any question and beyond doubt; clearly

synonym: absolutely, certainly, indeed

(1) **definitely** become a problem, (2) say **definitely**

The paper is **definitely** worth reading thoroughly.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

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.

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.

universal

adj. existing or affecting everywhere or everyone

synonym : common, broad, worldwide

(1) **universal** life, (2) principles of **universal** design

The picture earned near- **universal** acclaim from critics.

gravitation

n. the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass

synonym : attraction, pull, gravity

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

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

conceive

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

synonym : imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

relative

adj. considered and evaluated through comparison with something else

synonym : comparative, proximate, congeneric

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

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

leap

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

synonym : jump, bound, hop

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

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

adjacent

adj. next to, close to, or adjoining something

synonym : next, adjoining, neighboring

(1) **adjacent** to his house, (2) **adjacent** houses

Our country has military alliances with **adjacent** countries.

peculiar

adj. odd and uncommon, sometimes in an unpleasant way

synonym : bizarre, abnormal, odd

(1) **peculiar** way, (2) **peculiar** people

The juice has a **peculiar** taste.

evocative

adj. tending to evoke or bring something to mind

synonym : suggestive, stimulating, provocative

(1) **evocative** memories, (2) **evocative** language

The music was **evocative** of a bygone era.

concrete

adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

synonym : actual, factual, hardened

(1) a **concrete** noun, (2) **concrete** examples

The president asked for a more **concrete** plan.

grasp

v. to take hold of something or someone quickly and firmly

synonym : grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

origin

n. the first existence or beginning of something

synonym : root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

pose

v. to present a risk, problem, or other issues that must be addressed

synonym : present, put, position

(1) **pose** a significant threat to my company, (2) **pose** a challenge

The chemicals **pose** a massive health risk.

conceptual

adj. related to or founded on ideas, principles

synonym : theoretical, abstract, ideational

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

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

framework

n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

synonym : structure, scheme, foundation

(1) legal **framework**, (2) the **framework** of a house

He devised a new analytical **framework** to capture the phenomenon.

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

novelty

n. the quality of being new, attractive, and unusual

synonym : originality, newness, wonder

(1) bit of a **novelty**, (2) the **novelty** of an invention

In Europe, this tropical fruit is still a **novelty**.

innovation

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

synonym :

invention, initiation, creation

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

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

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym: imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

discuss

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

synonym: talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions

We need to **discuss** the next steps for the project during our meeting tomorrow.

compose

v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

synonym: compile, constitute, build

(1) **compose** an essay, (2) **compose** my thoughts

The structure is **composed** of three main components.

frightening

adj. causing fear or alarm, or very surprising and alarming

synonym: scary, terrifying, alarming

(1) cast **frightening** eyes, (2) **frightening** experience

The news of the pandemic was a **frightening** reminder of the fragility of human health.

possibility

n. a chance that something may happen or be true

synonym: chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym : bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

instance

n. a particular example or single occurrence of something

synonym : example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

acquire

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

synonym : attain, earn, catch

(1) **acquire** knowledge, (2) **acquire** a new company

Children **acquire** language at a fantastic rate.

biology

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

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

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

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym : bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym : microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**
Bacteria prevalent in hospitals are often resistant to antibiotics.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

grasping

adj. eager in acquiring or wanting to acquire more wealth, property, or power than is necessary

synonym : greedy, extorting, acquisitive

(1) **grasping** landlord, (2) **grasping** disposition

He was criticized for his **grasping** attitude, always looking for ways to make more money.

experiment

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

synonym : experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

invasion

n. army's act of forcibly entering another country or territory to take control of it

synonym : aggression, attack, raid

(1) the Turkish **invasion**, (2) home **invasion**

An **invasion** would most probably result in a political catastrophe.

excuse

n. a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt

synonym : apology, justification, reason

(1) **excuse** for inaction, (2) perfect **excuse**

He quickly fabricated an **excuse** for not attending the meeting.

brand

n. a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

synonym: trademark, label, symbol

(1) create a **brand** logo, (2) the **brand** of the new car

There's a new **brand** of hero in the movies now.

clue

n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

synonym: hint, indication, inkling

(1) a **clue** about the crime, (2) a **clue** to the diagnosis

The police couldn't find a **clue** to her whereabouts.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

rely

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

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him

Babies heavily **rely** on others for food.

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.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym: endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

forecast

n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

synonym: prediction, outlook, (verb) guess

(1) a weather **forecast**, (2) **forecast** an epidemic

Their team specializes in demand **forecasts** for our products.

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.

underlying

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

synonym: fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym: marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

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**.

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym : artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool blades.

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.

mislead

v. to cause someone to believe something that is not true

synonym : misinform, delude, belie

(1) **mislead** him into trusting her, (2) **mislead** the enemy

Our troops pulled back to **mislead** the enemy.

outback

n. the remote and sparsely populated interior of Australia, typically characterized by arid deserts and scrubland

synonym : Australian bush, hinterland, wilderness

(1) **outback** landscape, (2) **outback** adventure

The vast plains of the Australian **outback** stretch for miles in every direction.

suddenly

adv. quickly and unexpectedly

synonym : abruptly, unexpectedly, unawares

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

Who answers **suddenly** knows little.

kangaroo

n. a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the

mother's belly

synonym: bouncy, marsupial, joey

(1) giant **kangaroo**, (2) red **kangaroo**

The female **kangaroo** carries and nurses her young, or joey, in a pouch on her belly.

restart

v. to start something again, especially after a pause or interruption

synonym: continue, resume, begin anew

(1) **restart** a game, (2) **restart** a nuclear reactor

She tried to **restart** the conversation after the awkward silence.

algorithm

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

synonym: logic, method, rule

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

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

intelligence

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

synonym: brains, brightness, cleverness

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

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

wit

n. the ability to say or write things or ideas in a clever and humorous way

synonym: humor, comedy, funniness

(1) the **wit** of man, (2) full of **wit**

He has the **wit** to keep talking about this topic.

snowfall

n. a fall of snow; the amount of snow falling within a particular area in a specific time

synonym: snow, blizzard, gale

(1) the first **snowfall** of the season, (2) **snowfall** prediction
Several roads have been closed due to the heavy **snowfall**.

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**.

insight

n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**

We gained various **insights** by analyzing the vast amount of data owned by the company.

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**.

scheme

n. an organized and often large-scale plan or arrangement for doing something

synonym: strategy, blueprint, plan

(1) a pilot **scheme**, (2) draw out a **scheme**

They carefully executed the well-planned **scheme** they had prepared over the years.

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.

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.

relax

v. to become or cause someone to become less active or tense and calmer

synonym: soften, comfort, soothe

(1) **relax** a series of muscles, (2) **relax** at home

The rules were **relaxed** after the new executive arrived.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

propose

v. to make a proposal, declare a plan for something

synonym: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes

I want to **propose** a toast in honor of our longstanding relationship.

consist

v. to be composed or made up of

synonym: lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts

This examination **consists** of five problems to solve.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

technological

adj. based on scientific and industrial progress

synonym : specialized, technical

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

Technological advances have disrupted many industries.

increment

n. a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important

synonym : increase, expansion, addendum

(1) steady **incremental** growth, (2) small **increments**

The bid **increment** for this auction is \$100.

modification

n. the act of changing something, usually to improve it, or something changed

synonym : change, amendment, alteration

(1) a **modification** of last year's model, (2) further **modification**

As a result of this **modification**, we have revised our safety measures.

recombine

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**

Some scientists argue that the genes in food should not be artificially **recombined**.

immediately

adv. now or without delay

synonym : directly, instantly, promptly

(1) **immediately** recall a product, (2) write him an answer

immediately

A suspension order from the court is effective **immediately**.

boundary

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

synonym: border, frontier, limitation

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

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

suppose

v. to think that something is likely to be actual or possible

synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym: cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

spot

n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

synonym: dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

norm

n. something that is regarded as usual, typical, or standard

synonym: criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

foresee

v. to perceive or predict; to anticipate or expect something to happen in the future

synonym: predict, anticipate, forecast

(1) **foresee** the consequences, (2) **foresee** challenges I **foresee** a problem arising if we don't address this issue now.

define

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

synonym: characterize, depict, express

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

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

continuously

adv. without being interrupted or paused; repeatedly

synonym: constantly, frequently, always

(1) use one thing **continuously**, (2) **continuously** removed

The country's domestic coal consumption has been **continuously** declining for decades.

reshape

v. to change the form or structure of something

synonym: alter, adjust, modify

(1) **reshape** education policy, (2) **reshape** my thoughts

The advent of the Internet completely **reshaped** the manufacturing industry.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

proposal

n. a formal suggestion or offer, sometimes a written one

synonym: offer, suggestion, proposition

(1) an innovative **proposal**, (2) details of his **proposal**

Our skeleton outline of the **proposal** met with much opposition.

crucial

adj. extremely vital or necessary

synonym : essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women

The revitalization of technology companies is **crucial** to the country's growth.

interplay

n. the way in which two or more things interact or influence each other

synonym : interaction, give-and-take, interconnection

(1) **interplay** among neurons, (2) complex **interplay**

The **interplay** of light and shadow creates a dramatic effect in the painting.

expand

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

synonym : extend, grow, boost

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

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

restructure

v. to organize a company, business, or system in a new and different way to make it work more effectively

synonym : reorganize, revamp, reconstruct

(1) **restructure** sentence, (2) **restructure** my debts

The economic downturn made it necessary to **restructure** the business.

epiphany

n. a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus

synonym : revelation, enlightenment, insight

(1) **epiphany** about life, (2) Feast of **Epiphany**

She had an **epiphany** while meditating and realized the answer to her problem.

pace

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

synonym : gait, rate, speed

(1) at your own **pace**, (2) the runner's **pace**

The economy is growing at a supercharged **pace**.

observe

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

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

curve

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym: bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

steady

adj. firmly fixed, supported, or balanced; not shaking or moving

synonym: stable, solid, secure

(1) **steady** increase, (2) take a **steady** job

The patient's vital signs are **steady**, indicating a stable condition.

progression

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

synonym: advancement, development, evolution

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

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

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.

byte

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

(1) **byte** code, (2) **byte** array

The computer hard drive had plenty of storage space but was running low on available **bytes**.

software

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

synonym: program, system, operating system

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

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

amaze

v. to fill with wonder, surprise, or admiration

synonym: astound, surprise, stagger

(1) **amaze** and entertain visitors, (2) **amaze** everyone

The magician's tricks **amazed** the audience.

thrill

n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion

synonym: exhilaration, delight, rush

(1) the **thrill** of speed, (2) incredible **thrill**

Skydiving is an overwhelming **thrill** for many people.

discovery

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

synonym: finding, uncovering, detection

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

Her research team made an important **discovery**.

satisfy

v. to make somebody pleased by giving them what they want or need

synonym: please, amuse, meet

(1) **satisfy** a desire, (2) **satisfy** a user's needs

Did this response **satisfy** your request?

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.

apparently

adv. based on what you have heard or read

synonym: evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated

The police **apparently** believed this explanation was plausible.

dub

v. to give someone or something an unofficial name or nickname; to provide movies with a voice of a foreign language

synonym: name, designate, nickname

(1) **dub** the film in English, (2) **dub** data

We **dubbed** him Ironman because of his toughness.

correlate

v. to have a connection or relationship in which one thing affects or depends on another

synonym: associate, liken, connect

(1) **correlate** closely with the quality, (2) **correlate** to the size

We may frequently **correlate** age with the frequency of disease.

trigger

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

synonym: activate, spark, drive

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

The incident **triggered** a political controversy.

frantic

adj. marked by uncontrolled excitement or emotion; wild; frenzied

synonym: wild, frenzied, manic

(1) **frantic** pace, (2) with **frantic** haste

The mother was **frantic** as she searched for her lost child.

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.

substance

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

synonym: essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

synonym: instinct, gut feeling, sixth sense

(1) creative **intuition**, (2) **intuition** research

Some studies suggest that people's **intuitions** can be influenced by their experiences and biases.

random

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

synonym: incidental, arbitrary, unanticipated

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

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

imply

v. to indicate the truth or existence of something without referring to it

synonym : hint, indicate, denote

(1) **imply** a strong correlation, (2) **imply** the presence of alien

The salespeople speak in technical terms to **imply** that they are more knowledgeable than the customer.

chain

n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

synonym : series, string, link

(1) **chain** reaction, (2) supply **chain**

The **chain** on my bike broke, leaving me stranded.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

consequence

n. the outcome of a particular action or event, especially relative to an individual

synonym : result, impact, outcome

(1) unintended **consequences**, (2) the **consequence** of an argument

These economic activities had disastrous environmental **consequences**.

pet

n. an animal that you have at home as a companion and treated kindly

(1) a **pet** bird, (2) a teacher's **pet**

I have a parrot as a **pet**.

analyze

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

synonym : explore, examine, investigate

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

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

disappear

v. to cease to exist or be visible

synonym: fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week

They watched the train **disappear** into the distance.

evergreen

adj. (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant

synonym: ever-blooming, perennial, unfading

(1) **evergreen** classic, (2) **evergreen** shrub

The **evergreen** trees in the forest stay green all year round.

ebb

n. the movement of the tide out to sea; low tide; (verb) to flow back or recede

synonym: regression, decline, (verb) decrease

(1) **ebb** and flow, (2) at a low **ebb**

The tide was at its **ebb**, revealing the sandy beach.

tide

n. the cyclical rise and fall of sea level caused by the moon's gravitational pull

synonym: ripple, surge, swell

(1) **tide** cycle, (2) ride the **tide** of change

Red **tide** is often harmful to the local ecosystem.

coexist

v. to live or exist together at the same time in the same place

synonym: cohabit, accompany, synchronize

(1) **coexist** with nature, (2) **coexist** with diversity

The different species can **coexist** in the same ecosystem by filling different niches and using different resources.

trivial

adj. of little value or importance

synonym : insignificant, minor, unimportant

(1) a **trivial** man, (2) for **trivial** reasons

The problem seemed **trivial** initially, but it became a significant issue.

display

v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

synonym : show, exhibit, present

(1) **display** merchandise, (2) **display** artwork

We need to **display** our products in an attractive way to attract customers.

strategy

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

synonym : approach, procedure, scenario

(1) military **strategy**, (2) develop a **strategy**

Our plan includes a comprehensive marketing **strategy**.

retrace

v. to trace again, reexamine, or follow the path or course of something; to go back over something or retrace one's steps

synonym : backtrack, follow back

(1) **retrace** my life, (2) **retrace** a journey

I need to **retrace** my steps to find the lost keys.

exploit

v. to make full use of and gain an advantage from resources, opportunities, etc.

synonym : use, abuse, control

(1) **exploit** a security hole, (2) **exploit** a valuable opportunity

We **exploit** our mining resources to strengthen our national power.

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.

adventure

n. a journey or a series of events that is unusual, exciting, or dangerous

synonym : experience, happening, incident

(1) gastronomic **adventures**, (2) **adventure** film

He sailed the Atlantic Ocean multiple times during his **adventures**.

investigate

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

synonym : examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak

The committee **investigated** several apparent inconsistencies.

blade

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

synonym : knife, sword, cutter

(1) a **blade** of grass, (2) the **blade** of a turbine

The **blade** of the katana itself is still in excellent condition.

balance

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

synonym : equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

conservative

adj. holding traditional views and values and opposed to change or innovation

synonym : traditional, reactionary, cautious

(1) a **conservative** society, (2) **conservative** about production

He always makes a **conservative** estimation when predicting future sales.

exploitation

n. the process of making some area of land or water more profitable or productive or useful

synonym : victimization, development, using

(1) sexual **exploitation**, (2) the **exploitation** of fossil resources

Strategic **exploitation** of cutting-edge technology would be a sure formula for success.

equilibrium

n. a state in which opposing forces or influences are balanced

synonym : balance, stability, harmony

(1) **equilibrium** point, (2) political **equilibrium**

The company struggled to maintain an **equilibrium** between its profits and social responsibilities.

cue

n. a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

synonym : signal, sign, hint

(1) **cue** card, (2) visual **cue**

The director gave the actor a **cue** to begin the scene.

hint

n. an indirect suggestion; a slight but appreciable amount of something

synonym : clue, indication, suggestion

(1) **hint** of trouble, (2) helpful **hints**

There was no **hint** of a problem.

investigation

n. the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth

synonym: examination, analysis, inspection

(1) a preliminary **investigation**, (2) the scope of an **investigation**

We have never before conducted a legitimate **investigation**.

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.

parallel

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

synonym: aligned, side-by-side, similar

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

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

aim

v. to try or plan to get or achieve something

synonym: aspire, direct, target

(1) **aim** at a specific target, (2) **aim** to be a nurse

We **aim** for an overseas expansion.

Session 2: Spelling

1. an und_____ng cause of an accident
adj. significant as a cause or basis of something but not immediately apparent or stated clearly
2. ou_____k landscape
n. the remote and sparsely populated interior of Australia, typically characterized by arid deserts and scrubland
3. mat_____cs competition
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
4. am__e and entertain visitors
v. to fill with wonder, surprise, or admiration
5. ad_____nt houses
adj. next to, close to, or adjoining something
6. universal gra_____on
n. the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
7. so_____re architect
n. a set of computer programs and associated documentation and data for doing particular computational jobs
8. ch__n reaction
n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
9. copyrighted so_____re
n. a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 1. underlying, 2. outback, 3. mathematics, 4. amaze, 5. adjacent, 6. gravitation, 7. software, 8. chain, 9. software

10. legal fr_____rk *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
11. fo_____st an epidemic *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
12. military st_____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
13. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
14. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
15. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
16. ex_____t a security hole *v.* to make full use of and gain an advantage from resources, opportunities, etc.
17. co_____ve a child *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
18. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult

ANSWERS: 10. framework, 11. forecast, 12. strategy, 13. universe, 14. reaction, 15. discovery, 16. exploit, 17. conceive, 18. attempt

19. an____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
20. de____e my position *v.* to state or explain precisely the nature, scope, or meaning of something
21. c_e card *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
22. di____y merchandise *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
23. racial or____n *n.* the first existence or beginning of something
24. en____e data *v.* to convert information into a code or format suitable for storage or transmission
25. cr____l information *adj.* extremely vital or necessary
26. co____t car *n.* an idea or principle associated with something abstract
27. st____y increase *adj.* firmly fixed, supported, or balanced; not shaking or moving
28. cr____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
29. a profound in____t *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

ANSWERS: 19. analyze, 20. define, 21. cue, 22. display, 23. origin, 24. encode, 25. crucial, 26. concept, 27. steady, 28. creative, 29. insight

30. di_____ar after a week *v.* to cease to exist or be visible
31. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
32. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
33. ex___e for inaction *n.* a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt
34. learn new co_____ts *n.* an idea or principle associated with something abstract
35. ride the t__e of change *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
36. a remarkable ach_____nt *n.* a thing that someone has accomplished, primarily through their effort and ability
37. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
38. with fr_____c haste *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
39. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
40. ability to re_____ne *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

ANSWERS: 30. disappear, 31. intelligence, 32. innovation, 33. excuse, 34. concept, 35. tide, 36. achievement, 37. achieve, 38. frantic, 39. predict, 40. recombine

41. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
42. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
43. at a low e_b *n.* the movement of the tide out to sea; low tide; (verb) to flow back or recede
44. a co____te noun *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
45. in____on research *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
46. fo____e the consequences *v.* to perceive or predict; to anticipate or expect something to happen in the future
47. ast____ng achievement *adj.* surprising or shocking; difficult to believe
48. sa____y a desire *v.* to make somebody pleased by giving them what they want or need
49. a_m at a specific target *v.* to try or plan to get or achieve something
50. home in____on *n.* army's act of forcibly entering another country or territory to take control of it
51. n__t idea *adj.* clean or tidy, with everything in its place

ANSWERS: 41. biology, 42. specific, 43. ebb, 44. concrete, 45. intuition, 46. foresee, 47. astonishing, 48. satisfy, 49. aim, 50. invasion, 51. neat

52. un_____al life *adj.* existing or affecting everywhere or everyone
53. res_____re my debts *v.* to organize a company, business, or system in a new and different way to make it work more effectively
54. fr_____c pace *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
55. fas_____ng story *adj.* extremely interesting
56. co_____e my thoughts *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
57. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
58. pr_____le outcome *adj.* likely to happen or likely to be true
59. Ne_____an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
60. co_____te closely with the quality *v.* to have a connection or relationship in which one thing affects or depends on another
61. e_b and flow *n.* the movement of the tide out to sea; low tide; (verb) to flow back or recede
62. die su_____ly *adv.* quickly and unexpectedly
63. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
64. equ_____um point *n.* a state in which opposing forces or influences are balanced
65. Feast of Ep_____ny *n.* a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus

ANSWERS: 52. universal, 53. restructure, 54. frantic, 55. fascinating, 56. compose, 57. experiment, 58. probable, 59. Newtonian, 60. correlate, 61. ebb, 62. suddenly, 63. fascinate, 64. equilibrium, 65. epiphany

66. bit of a no____y *n.* the quality of being new, attractive, and unusual
67. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
68. theoretical ph____st *n.* a scientist who specializes in the field of physics
69. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
70. gr__p a chance *v.* to take hold of something or someone quickly and firmly
71. di____ar without a trace *v.* to cease to exist or be visible
72. re____t a game *v.* to start something again, especially after a pause or interruption
73. harmless ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
74. pr____e analyses *adj.* sharply exact or accurate or delimited
75. tec____cal advancement *adj.* based on scientific and industrial progress
76. co____te examples *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement

ANSWERS: 66. novelty, 67. random, 68. physicist, 69. virus, 70. grasp, 71. disappear, 72. restart, 73. bacteria, 74. precise, 75. technological, 76. concrete

77. an explosive su_____ce *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
78. an innovative pr_____al *n.* a formal suggestion or offer, sometimes a written one
79. ep_____ny about life *n.* a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus
80. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
81. a weather fo_____st *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
82. con_____sly removed *adv.* without being interrupted or paused; repeatedly
83. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
84. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
85. ex_____t a valuable opportunity *v.* to make full use of and gain an advantage from resources, opportunities, etc.

ANSWERS: 77. substance, 78. proposal, 79. epiphany, 80. colleague, 81. forecast, 82. continuously, 83. mathematics, 84. prediction, 85. exploit

86. re_____ne at the surface *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
87. draw out a sc____e *n.* an organized and often large-scale plan or arrangement for doing something
88. 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
89. gr_____ng disposition *adj.* eager in acquiring or wanting to acquire more wealth, property, or power than is necessary
90. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
91. im____e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
92. the cell of the im____e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
93. app_____ly simple *adv.* based on what you have heard or read
94. in_____ay among neurons *n.* the way in which two or more things interact or influence each other

ANSWERS: 86. recombine, 87. scheme, 88. simulate, 89. grasping, 90. spot, 91. immune, 92. immune, 93. apparently, 94. interplay

95. the w_t of man *n.* the ability to say or write things or ideas in a clever and humorous way
96. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
97. di____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
98. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
99. pr____le cause of a fire *adj.* likely to happen or likely to be true
100. take a st____y job *adj.* firmly fixed, supported, or balanced; not shaking or moving
101. say def____ly *adv.* without any question and beyond doubt; clearly
102. fri____ng experience *adj.* causing fear or alarm, or very surprising and alarming
103. re____e my thoughts *v.* to change the form or structure of something
104. a reckless at____t *n.* an act or effort of trying to do something, especially something difficult
105. pe____ar people *adj.* odd and uncommon, sometimes in an unpleasant way
106. co____t with nature *v.* to live or exist together at the same time in the same place
107. d_b the film in English *v.* to give someone or something an unofficial name or nickname; to provide movies with a voice of a foreign language

ANSWERS: 95. wit, 96. biology, 97. discuss, 98. molecule, 99. probable, 100. steady, 101. definitely, 102. frightening, 103. reshape, 104. attempt, 105. peculiar, 106. coexist, 107. dub

108. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
109. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
110. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
111. a mod_____ion of last year's model *n.* the act of changing something, usually to improve it, or something changed
112. for in_____ce *n.* a particular example or single occurrence of something
113. a tr_____l man *adj.* of little value or importance
114. tec_____cal policy *adj.* based on scientific and industrial progress
115. p__e a challenge *v.* to present a risk, problem, or other issues that must be addressed
116. incredible th____l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
117. the fr_____rk of a house *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
118. make ast_____ng gains *adj.* surprising or shocking; difficult to believe

ANSWERS: 108. synthetic, 109. typical, 110. curve, 111. modification, 112. instance, 113. trivial, 114. technological, 115. pose, 116. thrill, 117. framework, 118. astonishing

119. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
120. Ne_____an physics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
121. mi_____d him into trusting her *v.* to cause someone to believe something that is not true
122. a_m_____ to be a nurse *v.* to try or plan to get or achieve something
123. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
124. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
125. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
126. res_____re sentence *v.* to organize a company, business, or system in a new and different way to make it work more effectively
127. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
128. the bl__e of a turbine *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
129. con_____al art *adj.* related to or founded on ideas, principles

ANSWERS: 119. complexity, 120. Newtonian, 121. mislead, 122. aim, 123. prediction, 124. discovery, 125. intelligence, 126. restructure, 127. algorithm, 128. blade, 129. conceptual

130. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
131. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
132. en___e information *v.* to convert information into a code or format suitable for storage or transmission
133. at your own p___e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
134. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
135. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
136. b___e code *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
137. share my in_____ts *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
138. r___y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
139. steady in_____ntal growth *n.* a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important

ANSWERS: 130. progression, 131. algorithm, 132. encode, 133. pace, 134. analyze, 135. possibility, 136. byte, 137. insight, 138. rely, 139. increment

140. tr____r a biochemical response *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function
141. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
142. a con____ive society *adj.* holding traditional views and values and opposed to change or innovation
143. a preliminary inv____ion *n.* the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth
144. am__e everyone *v.* to fill with wonder, surprise, or admiration
145. principles of un____al design *adj.* existing or affecting everywhere or everyone
146. 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
147. theory of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
148. historical phe____on *n.* something that exists and can be perceptible, especially one that is not fully understood
149. 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

ANSWERS: 140. trigger, 141. chain, 142. conservative, 143. investigation, 144. amaze, 145. universal, 146. launch, 147. universe, 148. phenomenon, 149. simulate

150. ac____e a new company *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself
151. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
152. 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
153. im__y the presence of alien *v.* to indicate the truth or existence of something without referring to it
154. the br__d of the new car *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
155. ev_____en shrub *adj.* (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant
156. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
157. new con_____al framework *adj.* related to or founded on ideas, principles
158. sa_____y a user's needs *v.* to make somebody pleased by giving them what they want or need
159. re_____e education policy *v.* to change the form or structure of something

ANSWERS: 150. acquire, 151. substance, 152. stick, 153. imply, 154. brand, 155. evergreen, 156. excite, 157. conceptual, 158. satisfy, 159. reshape

160. the bo_____ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
161. de____t from the faith *v.* to go away or leave, especially to start a journey
162. inv_____te the matter *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
163. a teacher's p_t *n.* an animal that you have at home as a companion and treated kindly
164. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
165. di_____s options *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
166. a bl__e of grass *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
167. former co_____ue *n.* one of a group of a coworker, especially in a profession or a business
168. imm_____ly recall a product *adv.* now or without delay
169. h__t of trouble *n.* an indirect suggestion; a slight but appreciable amount of something
170. sexual exp_____ion *n.* the process of making some area of land or water more profitable or productive or useful

ANSWERS: 160. boundary, 161. depart, 162. investigate, 163. pet, 164. parallel, 165. discuss, 166. blade, 167. colleague, 168. immediately, 169. hint, 170. exploitation

171. a c__e to the diagnosis *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
172. student ach_____nt *n.* a thing that someone has accomplished, primarily through their effort and ability
173. cast fri_____ng eyes *adj.* causing fear or alarm, or very surprising and alarming
174. a remote re_____ve *adj.* considered and evaluated through comparison with something else
175. cultural n__m *n.* something that is regarded as usual, typical, or standard
176. notable in_____ce *n.* a particular example or single occurrence of something
177. ac_____e knowledge *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself
178. the th___l of speed *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
179. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
180. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
181. pe_____ar way *adj.* odd and uncommon, sometimes in an unpleasant way

ANSWERS: 171. clue, 172. achievement, 173. frightening, 174. relative, 175. norm, 176. instance, 177. acquire, 178. thrill, 179. expand, 180. random, 181. peculiar

182. de___e a word *v.* to state or explain precisely the nature, scope, or meaning of something
183. con_____ive about production *adj.* holding traditional views and values and opposed to change or innovation
184. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
185. re_____e my life *v.* to trace again, reexamine, or follow the path or course of something; to go back over something or retrace one's steps
186. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
187. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
188. a p_t bird *n.* an animal that you have at home as a companion and treated kindly
189. the runner's p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
190. the ba_____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
191. l__p to a conclusion *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
192. ad_____re film *n.* a journey or a series of events that is unusual, exciting, or dangerous

ANSWERS: 182. define, 183. conservative, 184. spot, 185. retrace, 186. virus, 187. phenomenon, 188. pet, 189. pace, 190. balance, 191. leap, 192. adventure

193. ev_____ve language *adj.* tending to evoke or bring something to mind
194. talented ph_____st *n.* a scientist who specializes in the field of physics
195. su_____ly attacked by an enemy *adv.* quickly and unexpectedly
196. im__y a strong correlation *v.* to indicate the truth or existence of something without referring to it
197. pos_____ty for growth *n.* a chance that something may happen or be true
198. write him an answer imm_____ly *adv.* now or without delay
199. the con_____ce of an argument *n.* the outcome of a particular action or event, especially relative to an individual
200. mi_____d the enemy *v.* to cause someone to believe something that is not true
201. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
202. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
203. the exp_____ion of fossil resources *n.* the process of making some area of land or water more profitable or productive or useful
204. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 193. evocative, 194. physicist, 195. suddenly, 196. imply, 197. possibility, 198. immediately, 199. consequence, 200. mislead, 201. curve, 202. reaction, 203. exploitation, 204. innovation

205. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
206. creative in_____on *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
207. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
208. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
209. ex____d a lineup *v.* to increase or to make something greater in size, number, or importance
210. small in_____nts *n.* a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important
211. p__e a significant threat to my company *v.* to present a risk, problem, or other issues that must be addressed
212. a ge____s for music *n.* someone who has exceptional intellectual ability and originality
213. di_____y artwork *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

ANSWERS: 205. parallel, 206. intuition, 207. observe, 208. achieve, 209. expand, 210. increment, 211. pose, 212. genius, 213. display

214. unintended con_____ces *n.* the outcome of a particular action or event, especially relative to an individual
215. visual c_e *n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something
216. complex in_____ay *n.* the way in which two or more things interact or influence each other
217. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
218. gr_____ng landlord *adj.* eager in acquiring or wanting to acquire more wealth, property, or power than is necessary
219. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
220. d_b data *v.* to give someone or something an unofficial name or nickname; to provide movies with a voice of a foreign language
221. 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
222. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 214. consequence, 215. cue, 216. interplay, 217. investigate, 218. grasping, 219. experiment, 220. dub, 221. planet, 222. observe

223. co_____e an essay *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
224. a cr_____l issue for women *adj.* extremely vital or necessary
225. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
226. su_____e beforehand *v.* to think that something is likely to be actual or possible
227. ex_____e the crowd *v.* to make someone feel suddenly enthusiastic or eager
228. the first sn_____ll of the season *n.* a fall of snow; the amount of snow falling within a particular area in a specific time
229. full of w_t *n.* the ability to say or write things or ideas in a clever and humorous way
230. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
231. resident al____ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
232. ev_____ve memories *adj.* tending to evoke or bring something to mind
233. co_____te to the size *v.* to have a connection or relationship in which one thing affects or depends on another

ANSWERS: 223. compose, 224. crucial, 225. predict, 226. suppose, 227. excite, 228. snowfall, 229. wit, 230. molecule, 231. alien, 232. evocative, 233. correlate

234. geographical bo____ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
235. details of his pr____al *n.* a formal suggestion or offer, sometimes a written one
236. asset on the company's ba____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
237. 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
238. a person of ge____s *n.* someone who has exceptional intellectual ability and originality
239. terrestrial gra____on *n.* the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
240. perfect ex____e *n.* a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt
241. barren of cr____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
242. re__x a series of muscles *v.* to become or cause someone to become less active or tense and calmer

ANSWERS: 234. boundary, 235. proposal, 236. balance, 237. stick, 238. genius, 239. gravitation, 240. excuse, 241. creative, 242. relax

243. re____ve factors *adj.* considered and evaluated through comparison with something else
244. re____e a journey *v.* to trace again, reexamine, or follow the path or course of something; to go back over something or retrace one's steps
245. red ka____oo *n.* a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly
246. or____n of information *n.* the first existence or beginning of something
247. develop a st____gy *n.* a detailed plan of action designed to achieve a long-term or overall goal.
248. def____ly become a problem *adv.* without any question and beyond doubt; clearly
249. sp____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
250. for tr____l reasons *adj.* of little value or importance
251. ad____nt to his house *adj.* next to, close to, or adjoining something
252. pr____e changes *v.* to make a proposal, declare a plan for something
253. arrive and de____t on time *v.* to go away or leave, especially to start a journey
254. re____t a nuclear reactor *v.* to start something again, especially after a pause or interruption
255. b__e array *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

ANSWERS: 243. relative, 244. retrace, 245. kangaroo, 246. origin, 247. strategy, 248. definitely, 249. specific, 250. trivial, 251. adjacent, 252. propose, 253. depart, 254. restart, 255. byte

256. estimate pr____e costs *adj.* sharply exact or accurate or delimited
257. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
258. co_____ve of an idea *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
259. co_____t with diversity *v.* to live or exist together at the same time in the same place
260. use one thing con_____sly *adv.* without being interrupted or paused; repeatedly
261. giant ka_____oo *n.* a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly
262. sn_____ll prediction *n.* a fall of snow; the amount of snow falling within a particular area in a specific time
263. gastronomic ad_____res *n.* a journey or a series of events that is unusual, exciting, or dangerous
264. co_____t mainly of cells *v.* to be composed or made up of
265. sy_____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
266. a c__e about the crime *n.* an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
267. political equ_____um *n.* a state in which opposing forces or influences are balanced

ANSWERS: 256. precise, 257. complexity, 258. conceive, 259. coexist, 260. continuously, 261. kangaroo, 262. snowfall, 263. adventure, 264. consist, 265. synthetic, 266. clue, 267. equilibrium

268. a pilot sc___e *n.* an organized and often large-scale plan or arrangement for doing something
269. co____t only in knowing facts *v.* to be composed or made up of
270. 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
271. a n__t piece of work *adj.* clean or tidy, with everything in its place
272. l__p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
273. 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
274. pathogenic ba____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
275. further mod_____ion *n.* the act of changing something, usually to improve it, or something changed
276. an und_____ng motive *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
277. pr_____e the amendment *v.* to make a proposal, declare a plan for something

ANSWERS: 268. scheme, 269. consist, 270. structure, 271. neat, 272. leap, 273. structure, 274. bacteria, 275. modification, 276. underlying, 277. propose

278. gr__p his hand *v.* to take hold of something or someone quickly and firmly
279. helpful h__ts *n.* an indirect suggestion; a slight but appreciable amount of something
280. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
281. t__e cycle *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
282. completely fas_____ng to me *adj.* extremely interesting
283. n__m of action *n.* something that is regarded as usual, typical, or standard
284. app_____ly unrelated *adv.* based on what you have heard or read
285. ou_____k adventure *n.* the remote and sparsely populated interior of Australia, typically characterized by arid deserts and scrubland
286. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
287. create a br__d logo *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
288. tr_____r inflation *v.* to make something happen suddenly; to cause something such as a device, machine, etc. to function

ANSWERS: 278. grasp, 279. hint, 280. weird, 281. tide, 282. fascinating, 283. norm, 284. apparently, 285. outback, 286. rely, 287. brand, 288. trigger

289. 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
290. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
291. ev_____en classic *adj.* (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant
292. fa_____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
293. the Turkish in_____on *n.* army's act of forcibly entering another country or territory to take control of it
294. the scope of an inv_____ion *n.* the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth
295. re__x at home *v.* to become or cause someone to become less active or tense and calmer
296. su_____e you're right *v.* to think that something is likely to be actual or possible
297. the no_____y of an invention *n.* the quality of being new, attractive, and unusual
298. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
299. fo_____e challenges *v.* to perceive or predict; to anticipate or expect something to happen in the future
300. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

ANSWERS: 289. launch, 290. progression, 291. evergreen, 292. fascinate, 293. invasion, 294. investigation, 295. relax, 296. suppose, 297. novelty, 298. weird, 299. foresee, 300. alien

301. fairly ty____l symptoms

adj. having the usual characteristics or traits of a specific group of things

302. 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

ANSWERS: 301. typical, 302. planet

Session 3: Fill in the Blanks

1. 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
2. An _____ would most probably result in a political catastrophe.
n. army's act of forcibly entering another country or territory to take control of it
3. He always makes a _____ estimation when predicting future sales.
adj. holding traditional views and values and opposed to change or innovation
4. My computer has been acting _____ recently.
adj. extraordinary, unexpected, or difficult to explain
5. To find drunk drivers, police conduct _____ tests.
adj. made, done, or happening without method, conscious decision, or any regular pattern
6. The athlete was able to _____ over the hurdle with ease.
v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
7. In terms of _____ he was head and shoulders above his classmates.
n. the ability to learn, comprehend, or make judgments or conclusions based on reasons
8. He sailed the Atlantic Ocean multiple times during his _____.
n. a journey or a series of events that is unusual, exciting, or dangerous

ANSWERS: 1. specific, 2. invasion, 3. conservative, 4. weird, 5. random, 6. leap, 7. intelligence, 8. adventures

9. What do you _____ the culprit's motive was?
v. to think that something is likely to be actual or possible
10. Try to keep a _____ between work and off.
n. a condition in which everything has the same weight or force; something left after other parts have been taken away
11. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something
12. The president asked for a more _____ plan.
adj. existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
13. They spent a lot of time trying to _____ the current situation.
v. to take hold of something or someone quickly and firmly
14. I have a parrot as a _____.
n. an animal that you have at home as a companion and treated kindly
15. We need to _____ our products in an attractive way to attract customers.
v. to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
16. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
17. All the supervisor has to do is assign tasks that make his subordinates more _____.
adj. relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 9. suppose, 10. balance, 11. define, 12. concrete, 13. grasp, 14. pet, 15. display, 16. achieve, 17. creative

18. We may frequently _____ age with the frequency of disease.
v. to have a connection or relationship in which one thing affects or depends on another
19. We _____ him Ironman because of his toughness.
v. to give someone or something an unofficial name or nickname; to provide movies with a voice of a foreign language
20. The _____ in the road was so sharp that I had to slow down to navigate it safely.
n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
21. Their team specializes in demand _____ for our products.
n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
22. Skydiving is an overwhelming _____ for many people.
n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
23. He has absolutely no _____ comprehension of maths.
adj. related to or founded on ideas, principles
24. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
25. They hope to _____ their business worldwide.
v. to increase or to make something greater in size, number, or importance

ANSWERS: 18. correlate, 19. dubbed, 20. curve, 21. forecasts, 22. thrill, 23. conceptual, 24. biology, 25. expand

26. The police couldn't find a _____ to her whereabouts.
n. an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
27. The systems we have developed has accepted as industry _____.
n. something that is regarded as usual, typical, or standard
28. The news of the pandemic was a _____ reminder of the fragility of human health.
adj. causing fear or alarm, or very surprising and alarming
29. 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
30. Who answers _____ knows little.
adv. quickly and unexpectedly
31. The structure is _____ of three main components.
v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
32. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
33. The software can _____ and decode encrypted messages.
v. to convert information into a code or format suitable for storage or transmission
34. The news of her sudden death was _____ to everyone who knew her.
adj. surprising or shocking; difficult to believe

ANSWERS: 26. clue, 27. norms, 28. frightening, 29. colleague, 30. suddenly, 31. composed, 32. predict, 33. encode, 34. astonishing

35. Our skeleton outline of the _____ met with much opposition.
n. a formal suggestion or offer, sometimes a written one
36. The motion of planets can be described using _____ mechanics.
adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
37. She has _____ habits.
adj. clean or tidy, with everything in its place
38. This _____ has never been formally accepted.
n. a thing that someone has accomplished, primarily through their effort and ability
39. In Europe, this tropical fruit is still a _____.
n. the quality of being new, attractive, and unusual
40. The salespeople speak in technical terms to _____ that they are more knowledgeable than the customer.
v. to indicate the truth or existence of something without referring to it
41. They watched the train _____ into the distance.
v. to cease to exist or be visible
42. Our plan includes a comprehensive marketing _____.
n. a detailed plan of action designed to achieve a long-term or overall goal.
43. As a result of this _____ we have revised our safety measures.
n. the act of changing something, usually to improve it, or something changed
44. The incident _____ a political controversy.
v. to make something happen suddenly; to cause something such as a device, machine, etc. to function

ANSWERS: 35. proposal, 36. Newtonian, 37. neat, 38. achievement, 39. novelty, 40. imply, 41. disappear, 42. strategy, 43. modification, 44. triggered

45. The magic tricks _____ the children.
v. to attract and hold the attention of someone deeply and irresistibly
46. The _____ principle of every business was identical.
adj. significant as a cause or basis of something but not immediately apparent or stated clearly
47. The company specializes in both hardware and _____.
n. a set of computer programs and associated documentation and data for doing particular computational jobs
48. He devised a new analytical _____ to capture the phenomenon.
n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
49. There was no _____ of a problem.
n. an indirect suggestion; a slight but appreciable amount of something
50. The _____ is about 13.8 billion years old.
n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
51. The _____ on my bike broke, leaving me stranded.
n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
52. We _____ before the temperature fell below zero.
v. to go away or leave, especially to start a journey

ANSWERS: 45. fascinated, 46. underlying, 47. software, 48. framework, 49. hint, 50. universe, 51. chain, 52. departed

53. _____ diamonds play an essential role as machine tool blades.
adj. made by combining chemical substances as opposed to being naturally occurring
54. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
55. Red _____ is often harmful to the local ecosystem.
n. the cyclical rise and fall of sea level caused by the moon's gravitational pull
56. Babies heavily _____ on others for food.
v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
57. The female _____ carries and nurses her young, or joey, in a pouch on her belly.
n. a large marsupial native to Australia with powerful hind legs for jumping and carrying young in a pouch on the mother's belly
58. _____ prevalent in hospitals are often resistant to antibiotics.
n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
59. He wandered the _____ between life and death by gunfire.
n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places
60. _____ advances have disrupted many industries.
adj. based on scientific and industrial progress

ANSWERS: 53. Synthetic, 54. experiments, 55. tide, 56. rely, 57. kangaroo, 58. Bacteria, 59. boundary, 60. Technological

61. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
62. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
63. The content is _____ and informative for me.
- adj.* sharply exact or accurate or delimited
64. The economic downturn made it necessary to _____ the business.
- v.* to organize a company, business, or system in a new and different way to make it work more effectively
65. Some scientists argue that the genes in food should not be artificially _____.
- v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
66. The juice has a _____ taste.
- adj.* odd and uncommon, sometimes in an unpleasant way
67. 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
68. I need to _____ my steps to find the lost keys.
- v.* to trace again, reexamine, or follow the path or course of something; to go back over something or retrace one's steps

ANSWERS: 61. algorithm, 62. analyze, 63. precise, 64. restructure, 65. recombined, 66. peculiar, 67. launch, 68. retrace

69. The director gave the actor a ____ to begin the scene.

- n.* a signal, gesture, or action that provides information or direction for someone else to act or respond; a reminder or prompt for someone to do something

70. One such rapidly growing _____ is quantum cryptography.

- n.* an idea or principle associated with something abstract

71. An infected person in the hospital will likely pass the _____ to others.

- n.* a tiny infectious organic material that causes disease in people, animals, and plants

72. They carefully executed the well-planned _____ they had prepared over the years.

- n.* an organized and often large-scale plan or arrangement for doing something

73. He walked a road _____ to the railroad.

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

74. The company has made great strides in its _____ toward sustainability.

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

75. The shape of the DNA _____ is a double helix.

- n.* a group of two or more atoms held together by attractive forces known as chemical bonds

76. This remote ____ is rarely visited.

- n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 69. cue, 70. concept, 71. virus, 72. scheme, 73. parallel, 74. progression, 75. molecule, 76. spot

77. The economy is growing at a supercharged _____.

- n.* the speed at which someone or something moves, or the rate at which something happens or changes

78. This artwork is _____ of her work.

- adj.* having the usual characteristics or traits of a specific group of things

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

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

80. The different species can _____ in the same ecosystem by filling different niches and using different resources.

- v.* to live or exist together at the same time in the same place

81. The country's domestic coal consumption has been _____ declining for decades.

- adv.* without being interrupted or paused; repeatedly

82. The mother was _____ as she searched for her lost child.

- adj.* marked by uncontrolled excitement or emotion; wild; frenzied

83. I can't _____ he'd want to harm us.

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

84. Several roads have been closed due to the heavy _____.

- n.* a fall of snow; the amount of snow falling within a particular area in a specific time

ANSWERS: 77. pace, 78. typical, 79. discuss, 80. coexist, 81. continuously, 82. frantic, 83. conceive, 84. snowfall

85. The advent of the Internet completely _____ the manufacturing industry.
v. to change the form or structure of something
86. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
87. The _____ of the argument was well-presented.
n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
88. The music was _____ of a bygone era.
adj. tending to evoke or bring something to mind
89. These articles cite five _____ of climate change.
n. a particular example or single occurrence of something
90. Children _____ language at a fantastic rate.
v. to buy or obtain something such as an asset, object, knowledge, etc., for oneself
91. Our country has military alliances with _____ countries.
adj. next to, close to, or adjoining something
92. The chemicals _____ a massive health risk.
v. to present a risk, problem, or other issues that must be addressed
93. The tide was at its _____ revealing the sandy beach.
n. the movement of the tide out to sea; low tide; (verb) to flow back or recede

ANSWERS: 85. reshaped, 86. mathematics, 87. substance, 88. evocative, 89. instances, 90. acquire, 91. adjacent, 92. pose, 93. ebb,

94. These economic activities had disastrous environmental _____.
- n.* the outcome of a particular action or event, especially relative to an individual
95. We ____ for an overseas expansion.
- v.* to try or plan to get or achieve something
96. 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
97. The _____ of getting the disease will drastically increase.
- n.* a chance that something may happen or be true
98. The computer hard drive had plenty of storage space but was running low on available _____.
- n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
99. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation
100. The third _____ was far more successful.
- n.* an act or effort of trying to do something, especially something difficult
101. The vaccination does not necessarily make you completely _____.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

ANSWERS: 94. consequences, 95. aim, 96. planet, 97. possibility, 98. bytes, 99. innovation, 100. attempt, 101. immune

102. There was a chemical _____ of the lime with the groundwater.
n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
103. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
104. The _____ of light and shadow creates a dramatic effect in the painting.
n. the way in which two or more things interact or influence each other
105. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
106. He quickly fabricated an _____ for not attending the meeting.
n. a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt
107. _____ species have drastically altered the ecosystem in this area.
n. a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
108. 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
109. The patient's vital signs are _____ indicating a stable condition.
adj. firmly fixed, supported, or balanced; not shaking or moving

ANSWERS: 102. reaction, 103. origin, 104. interplay, 105. discovery, 106. excuse, 107. Alien, 108. stick, 109. steady,

110. Did this response _____ your request?

v. to make somebody pleased by giving them what they want or need

111. 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

112. The company struggled to maintain an _____ between its profits and social responsibilities.

n. a state in which opposing forces or influences are balanced

113. We gained various _____ by analyzing the vast amount of data owned by the company.

n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

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

adv. now or without delay

115. Mozart was a musical _____.

n. someone who has exceptional intellectual ability and originality

116. She tried to _____ the conversation after the awkward silence.

v. to start something again, especially after a pause or interruption

117. I _____ a problem arising if we don't address this issue now.

v. to perceive or predict; to anticipate or expect something to happen in the future

ANSWERS: 110. satisfy, 111. simulate, 112. equilibrium, 113. insights, 114. immediately, 115. genius, 116. restart, 117. foresee

118. The vast plains of the Australian _____ stretch for miles in every direction.
n. the remote and sparsely populated interior of Australia, typically characterized by arid deserts and scrubland
119. These results muddied the _____.
n. the act of predicting the future by reasoning; a statement made about the future
120. We _____ our mining resources to strengthen our national power.
v. to make full use of and gain an advantage from resources, opportunities, etc.
121. Strategic _____ of cutting-edge technology would be a sure formula for success.
n. the process of making some area of land or water more profitable or productive or useful
122. It seems _____ that he has forgotten our scheduled meeting.
adj. likely to happen or likely to be true
123. The _____ trees in the forest stay green all year round.
adj. (of plants) retaining its leaves or foliage throughout the year; (figuratively) enduring, perennial, or constant
124. 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
125. He was criticized for his _____ attitude, always looking for ways to make more money.
adj. eager in acquiring or wanting to acquire more wealth, property, or power than is necessary

ANSWERS: 118. outback, 119. prediction, 120. exploit, 121. exploitation, 122. probable, 123. evergreen, 124. structure, 125. grasping

126. 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
127. Einstein was an outstanding and famous _____ of the 20th century.
n. a scientist who specializes in the field of physics
128. We have never before conducted a legitimate _____.
n. the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth
129. Most countries prohibit sexual activity between certain close _____.
adj. considered and evaluated through comparison with something else
130. He has the ____ to keep talking about this topic.
n. the ability to say or write things or ideas in a clever and humorous way
131. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
132. The bid _____ for this auction is \$100.
n. a regular increase in the amount of something, such as money; a process of becoming larger, longer, or more important
133. The picture earned near-_____ acclaim from critics.
adj. existing or affecting everywhere or everyone
134. The rules were _____ after the new executive arrived.
v. to become or cause someone to become less active or tense and calmer

ANSWERS: 126. complexity, 127. physicist, 128. investigation, 129. relatives, 130. wit, 131. apparently, 132. increment, 133. universal, 134. relaxed

135. The _____ of the katana itself is still in excellent condition.
- n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
136. Some studies suggest that people's _____ can be influenced by their experiences and biases.
- n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why
137. The magician's tricks _____ the audience.
- v.* to fill with wonder, surprise, or admiration
138. The museum houses a _____ collection of Celtic artifacts.
- adj.* extremely interesting
139. The force of _____ keeps the planets in our solar system in orbit around the sun.
- n.* the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
140. The news of her promotion _____ her.
- v.* to make someone feel suddenly enthusiastic or eager
141. Our troops pulled back to _____ the enemy.
- v.* to cause someone to believe something that is not true
142. She had an _____ while meditating and realized the answer to her problem.
- n.* a moment of sudden and great realization or revelation; a Christian festival, held on 6 January, celebrating the visit of the three wise men to the infant Jesus

ANSWERS: 135. blade, 136. intuitions, 137. amazed, 138. fascinating, 139. gravitation, 140. excited, 141. mislead, 142. epiphany

143. I want to _____ a toast in honor of our longstanding relationship.
v. to make a proposal, declare a plan for something
144. This examination _____ of five problems to solve.
v. to be composed or made up of
145. The paper is _____ worth reading thoroughly.
adv. without any question and beyond doubt; clearly
146. A rainbow is a natural _____.
n. something that exists and can be perceptible, especially one that is not fully understood
147. It is important to _____ safety procedures in the workplace to prevent accidents.
v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
148. The revitalization of technology companies is _____ to the country's growth.
adj. extremely vital or necessary
149. The committee _____ several apparent inconsistencies.
v. to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
150. The problem seemed _____ initially, but it became a significant issue.
adj. of little value or importance

ANSWERS: 143. propose, 144. consists, 145. definitely, 146. phenomenon, 147. observe, 148. crucial, 149. investigated, 150. trivial

151. There's a new _____ of hero in the movies now.

- n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

ANSWERS: 151. brand