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Vocabulary Builder Reference from...

Fred Jansen: How to land on a comet | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

epic

n. a long and eventful or heroic history, story, poem, or film; (adjective) very imposing or impressive

synonym : legendary, mythical, classical

(1) heroic **epic**, (2) **epic** battle

The military **epic** between the two armies was one for the history books.

quest

n. a long or challenging search for something

synonym : exploration, inquisition, pursuit

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

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

spacecraft

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

synonym : spaceship, satellite, probe

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

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

escort

n. a person or group of people accompanying someone for protection, guidance, or courtesy; a companion or attendant; a service or a person providing a service for accompanying someone or something to or from a destination

synonym : chaperone, guardian, attendant

(1) **escort** for VIPs, (2) personal **escort**

An **escort** of bodyguards surrounded the celebrity to keep fans safe.

probe

n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym : investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

comet

n. a celestial object consisting of a nucleus of ice and dust that goes around the sun

synonym : meteor, asteroid, meteoroid

(1) the surface of the **comet**, (2) **comet** Halley

The **comet's** bright tail could be seen in the night sky.

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.

ignite

v. to set on fire; to cause to start burning

synonym : light, set fire to, ignite

(1) **ignite** a boom, (2) **ignite** passion

He **ignited** the fireworks with a single spark.

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.

asteroid

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

synonym: minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

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

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

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.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym: biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

bootstrap

n. a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance

synonym: boot, self-starting, load

(1) **bootstrap** method, (2) **bootstrap** framework

Many startups use **bootstrap** funding to get their businesses off the ground.

emergence

n. the process or fact of coming into existence or becoming apparent

synonym: appearance, emergence, rise

(1) **emergence** as a national leader, (2) re- **emergence** of rampant inflation

The **emergence** of a new virus can cause concern for public health.

puzzle

n. a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

synonym: plight, maze, (verb) perplex

(1) crossword **puzzle**, (2) mathematical **puzzle**

This jigsaw **puzzle** is challenging because there are no pictures.

Jovian

adj. relating to Jupiter or its characteristics

synonym: Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym: weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

sweep

v. to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly

synonym: clean, clear, brush off

(1) **sweep** up dead leaves, (2) **sweep** a room with a glance

The politician tried to **sweep** the embarrassing incident under the rug.

interior

n. the inside or inner part of something; the space within the walls of a building

synonym: inner, inside, internal

(1) **interior** decoration, (2) plenty of **interior** space

The painter focused on the moody **interiors** of abandoned buildings in his work.

belt

v. to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

synonym: sing, hit hard, (noun) strap

(1) **belt** him in the face, (2) leather **belt**

The band was **belting** out old songs in response to audience requests.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

synonym: path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**

The rocket engine is used to put the satellite into **orbit**.

deflect

v. to cause something, especially a criticism or attack, to be directed away from someone

synonym: deter, redirect, sidetrack

(1) **deflect** a blow, (2) **deflect** his criticism

The soccer player was able to **deflect** the ball away from the

goal.

gravity

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

synonym: heaviness, attraction, weight

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

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

meantime

n. the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else

synonym: interim, meanwhile, lag

(1) **meantime** report, (2) for the **meantime**

In the **meantime**, while we wait for the results, let's start working on the next project.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

(1) **ion** channel, (2) rechargeable lithium- **ion** battery

The increased concentration of **ion** of hydrogen ions in an aqueous solution makes it more acidic.

particle

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

synonym: atom, grain, bit

(1) charged **particle**, (2) **particle** energy

We can calculate the position of the **particles** statistically.

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym: attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

nucleus

n. the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom

synonym : core, heart, middle

(1) form a **nucleus**, (2) the **nucleus** of a team

DNA is stored in the **nucleus** of a cell.

pixel

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

synonym : dot, point, picture element

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

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

component

n. one of several parts that combines with others to form something bigger

synonym : element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

suspect

v. to consider anything to be actual or probable

synonym : assume, distrust, surmise

(1) **suspect** a plot, (2) **suspect** that he is sick

The cops **suspected** him of being the killer.

horizon

n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated

synonym : skyline, view, visible boundary

(1) the event **horizon** of a black hole, (2) business **horizon**

As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.

cornerstone

n. a fundamental or essential element or component of something; a basis or foundation upon which something is built or developed

synonym : foundation, basis, keystone

(1) **cornerstone** of democracy, (2) lay the **cornerstone**
Effective communication is often considered the **cornerstone** of a successful team.

parallel

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

synonym : aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing
He walked a road **parallel** to the railroad.

launch

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

synonym : start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack
The company is set to **launch** its new product line next month.

armada

n. a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things

synonym : fleet, flotilla, squadron

(1) naval **armada**, (2) **armada** ships
The Spanish **Armada** was a powerful fleet of ships that attempted to invade England in 1588.

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**.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym : accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

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?

rocket

n. a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon

synonym : projectile, missile

(1) **rocket** attack against the enemy, (2) **rocket** fuel

The **rocket** launch platform is visible from this hill.

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.

enthusiasm

n. a strong feeling of excitement and interest in a particular subject or cause and an eagerness to become involved in it

synonym : eagerness, zeal, willingness

(1) unflagging **enthusiasm**, (2) lose **enthusiasm**

We are tackling the development for updates with **enthusiasm**.

chin

n. the lowermost part of a person's face, below the mouth and above the neck

synonym : jaw, mandible, mentum

(1) a jutting **chin**, (2) **chin** rest

He scraped his **chin** when he fell off his bike.

historic

adj. famous or significant in history, or potentially so

synonym : memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat
The Chinese people have accomplished several **historic** feats.

satellite

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

synonym : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**
Launching an artificial **satellite** contributed to the technological development of our country.

exterior

adj. situated in or suitable for the outdoors or outside of something

synonym : external, outward, outer

(1) glass **exterior**, (2) new **exterior** design
Four **exterior** walls surround the courtyard.

normally

adv. usually; under normal conditions

synonym : commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much
I don't **normally** take a vacation in the middle of summer.

navigate

v. to plan and direct the way that a ship, plane, etc. will travel, often by using a map

synonym : guide, helm, voyage

(1) **navigate** the Pacific, (2) **navigate** through a document
Our knowledge helps **navigate** our clients successfully.

landmark

n. a notable or important event, place, or achievement; a significant object or feature that serves as a reference point

synonym : marker, reference point, guidepost

(1) a **landmark** discovery, (2) historical **landmark**

The Empire State Building is a **landmark** in New York City.

recognize

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

synonym : acknowledge, identify, admit

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

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

feat

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

synonym : achievement, accomplishment, exploit

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

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

boulder

n. a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion

synonym : rock, stone, clump

(1) **boulder** field, (2) lava **boulder**

The hikers had to climb over a **boulder** that was blocking their path.

crater

n. a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

synonym : cavity, hole, pit

(1) **crater** lake, (2) lunar **crater**

An enormous **crater** marks the area where the vast volcanic explosion occurred.

heroic

adj. courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

synonym : brave, courageous, daring

(1) a **heroic** poem, (2) **heroic** explorers

The **heroic** actions of individuals are now easily spread worldwide by SNS.

isotope

n. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties

synonym: variant, nuclide, radioisotope

(1) radioactive **isotope**, (2) stable **isotope**

The **isotope** carbon-14 is commonly used in radiocarbon dating of fossils.

thermal

adj. relating to heat or temperature; designed for or capable of producing or maintaining heat

synonym: heat-related, warm, hot

(1) **thermal** insulation, (2) **thermal** energy

The **thermal** imaging camera was used to detect heat signatures in the dark.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops

The customer on the Internet has to choose one from a formidable **array** of products.

outgas

v. to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds

synonym: evaporate, release, exhaust

(1) **outgas** odors, (2) **outgas** pollutants

High temperatures can cause certain plastics to **outgas** volatile compounds.

handy

adj. valuable and convenient; easy or ready to reach or use
synonym : clever, accessible, available

(1) a **handy-sized** bag, (2) **handy** tool

They found a **handy** place to play catch.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym : space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

velocity

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

synonym : speed, rapidity, swiftness

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

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

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.

fuel

n. a substance that is typically burned to generate heat or energy

synonym : energy, power, gas

(1) biomass **fuel**, (2) smokeless **fuel**

The **fuel** scarcity most severely impacted the manufacturing sector

weigh

v. to have a particular weight; to carefully evaluate things before making a conclusion

synonym : consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo
The baby **weighs** 1 pound 3 oz.

flyby

n. a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit

synonym: passby, flyover, whizz by

(1) **flyby** mission, (2) a five-plane **flyby**

The spacecraft will conduct a **flyby** of the moon to gather data.

slingshot

n. a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles

synonym: catapult, launcher, trebuchet

(1) **slingshot** projectile, (2) **slingshot** aim

The kids used a **slingshot** to launch small stones into the pond.

altitude

n. the height of an object or point in relation to sea level or ground level

synonym: height, elevation, tallness

(1) the meridian **altitude**, (2) low **altitude**

The plane flew at a high **altitude** to avoid turbulence.

mar

v. to damage or spoil the appearance or surface of something

synonym: damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation

The scratches on the car **marred** its otherwise perfect appearance.

hibernation

n. a state of inactivity and metabolic depression in animals during the winter

synonym: dormancy, torpor, sleep

(1) **hibernation** period, (2) artificial **hibernation**

Many animals go into **hibernation** during the winter to conserve energy and survive the harsh conditions.

trajectory

n. the curved path followed by an object moving through space

synonym : course, curve, orbit

(1) career **trajectory**, (2) a **trajectory** missile

The company has shown an excellent growth **trajectory** over the years.

elliptical

adj. having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself

synonym : oval, egg-shaped, oblong

(1) an **elliptical** motion, (2) an **elliptical** galaxies

The satellite's **elliptical** orbit made it appear to change its distance from earth.

rendezvous

n. a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location

synonym : meeting, appointment, encounter

(1) romantic **rendezvous**, (2) business **rendezvous**

Our **rendezvous** point was the coffee shop on the corner.

maneuver

n. a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

synonym : gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver**

In this class, we learn the basic **maneuver** of the plane.

selfie

n. a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media

synonym : self-portrait, self-photo, self-snap

(1) **selfie** stick, (2) pose for a **selfie**

She took a **selfie** in front of the famous tower and shared it on the app.

brake

n. a device used to slow or stop a moving vehicle, typically by applying pressure to the wheels

synonym : damper, restraint, check

(1) apply the **brake**, (2) **brake** pedal

The results of that election put a **brake** on political reform.

duration

n. the length of time something lasts or continues

synonym : period, span, course

(1) the **duration** of insurance, (2) short **duration**

The military incarcerated him for the **duration** of the war.

nervous

adj. worried and anxious about something; relating to the nerves

synonym : neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous**

He suffers from **nervous** breakdowns.

leak

v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container

synonym : outflow, divulge, disclose

(1) **leak** data, (2) **leak** a classified memo

He **leaked** serious accounting irregularities that only people in the company's executive could know.

propulsion

n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

synonym : propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**

The spacecraft's **propulsion** system helped it travel through space.

branch

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym : limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

qualified

adj. officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job

synonym : eligible, skillful, accomplished

(1) a **qualified** doctor, (2) **qualified** in medicine

We seek a person **qualified** for the post.

vicinity

n. the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region

synonym : proximity, nearness, locality

(1) immediate **vicinity**, (2) city and its **vicinity**

The area in the **vicinity** of the mall is known for its heavy traffic congestion.

rotation

n. the action or process of moving in a circle around an axis or center

synonym : revolution, spin, turning

(1) job **rotation**, (2) a period of **rotation**

The **rotation** of the Earth causes day and night.

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym : speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car

The government tried to **accelerate** the commercialization of this development.

flee

v. to leave by running away, especially out of fear or danger

synonym : exit, escape, run away

(1) **flee** their homes, (2) **flee** abroad

It is a basic instinct to **flee** from a dangerous situation.

dynamics

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

synonym : mechanics, kinetics, kinematics

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

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

engineer

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

synonym : architect, creator, builder

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

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

unavoidable

adj. impossible to avoid or evade; inevitable

synonym : inevitable, inescapable, certain

(1) an **unavoidable** accident, (2) under **unavoidable** circumstances

There are now fears that war is **unavoidable**.

diameter

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym : diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

technique

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

synonym: approach, procedure, strategy

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

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

clinometer

n. a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes

synonym: inclinometer, slope meter, tilt meter

(1) **clinometer** measurement, (2) digital **clinometer**

The surveyor took a **clinometer** reading to determine the exact angle of the hill's slope for the construction project.

shadow

n. a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner

synonym: shade, silhouette, outline

(1) **shadow** cast, (2) **shadow** puppetry

The tree cast a **shadow** over the picnic area, providing relief from the sun.

brain

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

synonym: intellect, mind, encephalon

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

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

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop

yields

One **determinant** of success is having a positive attitude and a strong work ethic.

roughly

adv. approximately but not precisely; with a violent manner

synonym: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

triangle

n. a three-sided polygon with three angles; something that has three sides or parts

synonym: trilateral, delta, triad

(1) **triangle** shape, (2) love **triangle**

The Pythagorean theorem is used to calculate the length of the sides of a right **triangle**.

command

n. authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

synonym: control, authority, leadership

(1) **command** and control, (2) **command** a battery

The general gave a **command** to his troops to prepare for battle.

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.

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

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

calculation

n. the act or process of using numbers to judge an amount of something

synonym: analysis, computation, estimate

(1) make a **calculation**, (2) **calculation** of loss and gain

The error in the **calculation** was attributable to rounding.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

locate

v. to specify or determine the exact position of someone or something

synonym: discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

instrument

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

synonym: apparatus, tool, device

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

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

bore

v. to make someone feel weary or uninterested, often by talking at length about uninteresting or mundane topics; to cause someone to feel bored or unengaged; (noun) a hole or tunnel drilled or dug into the ground, either for exploration or extraction of natural resources

synonym: bear, tire, weary

(1) **bore** diameter, (2) **bore** him with his stories

The lecture on quantum physics **bored** me to tears.

sniff

v. to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

synonym : smell, inhale, scent

(1) **sniff** the air, (2) **sniff** the perfume

The dog stopped to **sniff** around the tree, looking for something interesting.

composition

n. the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone

synonym : creating, formatting, arrangement

(1) age **composition** of the population, (2) the piano passages in the **composition**

Their innovative concepts were consistent across their bodies of **composition**.

magnetometer

n. a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields

synonym : magnetic field detector, fluxgate magnetometer

(1) **magnetometer** readings, (2) high-resolution **magnetometer**

The spacecraft **magnetometer** will help scientists study the magnetic fields of distant planets, offering insights into their composition and history.

density

n. the quality of compactness of a substance

synonym : tightness, viscosity

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

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

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym : chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

peak

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

synonym: summit, vertex, apex

(1) at **peak** hour, (2) the **peak** current in the circuit

This measurement aims to reduce traffic at **peak** periods.

evaporation

n. the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources

synonym: vaporization, dehydration, desiccation

(1) **evaporation** cooling, (2) slow **evaporation**

The formation of clouds is facilitated by the process of **evaporation** and condensation

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

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.

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.

compound

n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

synonym: combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

impressive

adj. arousing admiration due to size, quality, or skill

synonym: impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

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.

tantalum

n. a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties

(1) **tantalum** capacitor, (2) **tantalum** alloy

The mining of **tantalum** in some regions has led to environmental degradation.

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.

sodium

n. a metallic element that is the most common alkali metal and is used in the production of many chemicals, including soap, glass, and paper

synonym: Na, salt, alkali

(1) reduce my **sodium** intake, (2) **sodium** bicarbonate

High levels of **sodium** in the diet can increase the risk of developing high blood pressure.

magnesium

n. a silvery-white metal with the symbol Mg and atomic number 12, which is the eighth-most abundant element in the Earth's crust and is used in the production of various alloys, as well as in biomedical research and as an important nutrient for plants and animals

synonym: Mg

(1) **magnesium** oxide, (2) **magnesium** alloy

Taking **magnesium** supplements can help alleviate muscle soreness after working out.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym: attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

dome

n. a rounded vault forming the roof of a building or structure, typically with a circular base

synonym: hemisphere, cupola, vaults

(1) snow **dome**, (2) **dome** structure

The cathedral **dome** soared high above, its stained-glass windows casting colorful light on the altar below.

dun

adj. having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed

synonym: dark, gloomy, somber

(1) **dun** horse, (2) **dun** him for the unpaid bills

The spider was camouflaged on the **dun-colored** rock, waiting for its next prey.

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym: air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

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.

pit

n. a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit

synonym: hole, depression, indentation

(1) the bottomless **pit**, (2) the **pit** of the stomach

The **pit** of the avocado can be removed by gently wedging a spoon around it.

jet

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

synonym : plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

evaporate

v. to turn a liquid into a gas; to become less intense and disappear gradually

synonym : vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight

The sun will **evaporate** the mist.

intriguing

adj. arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating

synonym : fascinating, captivating, arresting

(1) **intriguing** concept, (2) **intriguing** character

The novel's plot was **intriguing** and kept readers in their seats.

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

synonym : snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

split

v. to divide, or to make something divide into two or more parts, especially along a particular line

synonym : break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

comparable

adj. able to link the similarities or differences with others; similar or equivalent to someone or something

synonym : equal, commensurate, similar

(1) **comparable** sales, (2) a **comparable** amount of energy
Humans and apes have **comparable** anatomical structures.

drill

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

synonym : exercise, routine, training

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

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

descent

n. the act or process of moving downward; a person's family origins

synonym : fall, drop, family

(1) **descent** from nobility, (2) **descent** of family

The **descent** from the mountain was steep and rocky.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym : arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

perspective

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

synonym : viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

bounce

v. to cause to move up or away after hitting a surface; to spring back

synonym : bound, leap, spring

(1) **bounce** across the floor, (2) **bounce** back from failure

They will **bounce** between various emotional states.

discard

v. to throw something away or get rid of something that you no longer wanted or need

synonym: throw away, reject, abandon

(1) **discard** old beliefs, (2) **discard** the downloaded data

He **discarded** the old torn shirt and bought a new one.

ax

n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials

synonym: hatchet, chopper, tomahawk

(1) chop wood with an **ax**, (2) an **ax** in the toolbox

He used an **ax** to chop the firewood for the campfire.

halfway

adj. in or at a point midway or an equal distance between two points

synonym: middle, median, center

(1) **halfway** through my journey, (2) **halfway** decent job

The famous restaurant stands **halfway** up the hill.

icon

n. a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file

synonym: figure, hero, idol

(1) **icon** for young people, (2) television **icon**

Some comic book characters are considered gay **icons**.

human-made

adj. created or produced by humans; artificial

synonym: artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst

human-made disaster

The bridge is a **human-made** structure and was built to span the river.

absolute

adj. perfect or complete or to the most considerable degree possible

synonym : complete, infrangible, indisputable

(1) **absolute** loyalty, (2) an **absolute** must

Gandhi had an **absolute** zeal for nonviolence.

mad

adj. insane, especially due to a mental illness; very angry

synonym : crazy, insane, furious

(1) a **mad** person, (2) gets **mad** easily

He was **mad** with joy to see the results.

crew

n. a group of people who work together, especially on a ship or airplane

synonym : team, group, squad

(1) the film **crew**, (2) the **crew** of a fishing boat

The ship's **crew** worked hard to repair the damaged sails before the next storm hit.

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**.

emotion

n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

synonym : feeling, sentiment, passion

(1) control my **emotion**, (2) afraid to show **emotion**

Some **emotions** are common across cultures and backgrounds.

Session 2: Spelling

1. a ma____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
2. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
3. qu_____ed in medicine *adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
4. chop wood with an ax *n.* a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
5. the p_t of the stomach *n.* a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
6. f__e abroad *v.* to leave by running away, especially out of fear or danger
7. reduce my so___m intake *n.* a metallic element that is the most common alkali metal and is used in the production of many chemicals, including soap, glass, and paper
8. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 1. magnetic, 2. fuel, 3. qualified, 4. ax, 5. pit, 6. flee, 7. sodium, 8. instrument

9. bo___e back from failure *v.* to cause to move up or away after hitting a surface; to spring back
10. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
11. de_____t a blow *v.* to cause something, especially a criticism or attack, to be directed away from someone
12. fl__y mission *n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
13. 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
14. fire dr__l *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
15. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
16. we__h a cargo *v.* to have a particular weight; to carefully evaluate things before making a conclusion
17. ha__y tool *adj.* valuable and convenient; easy or ready to reach or use
18. a com_____le amount of energy *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something
19. 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

ANSWERS: 9. bounce, 10. split, 11. deflect, 12. flyby, 13. planet, 14. drill, 15. rot, 16. weigh, 17. handy, 18. comparable, 19. spot

20. ha____y decent job *adj.* in or at a point midway or an equal distance between two points
21. business ho____n *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
22. musical ins____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
23. ro____t attack against the enemy *n.* a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
24. d_n horse *adj.* having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed
25. 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
26. for the me____me *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
27. com____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 20. halfway, 21. horizon, 22. instrument, 23. rocket, 24. dun, 25. spot, 26. meantime, 27. communicate

28. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
29. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
30. he___c explorers *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
31. low al____de *n.* the height of an object or point in relation to sea level or ground level
32. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
33. a convivial atm____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
34. na____te through a document *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
35. acc____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
36. ma____um oxide *n.* a silvery-white metal with the symbol Mg and atomic number 12, which is the eighth-most abundant element in the Earth's crust and is used in the production of various alloys, as well as in biomedical research and as an important nutrient for plants and animals

ANSWERS: 28. graph, 29. engineer, 30. heroic, 31. altitude, 32. crack, 33. atmosphere, 34. navigate, 35. accelerate, 36. magnesium

37. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
38. ma_____e amounts *adj.* enormous amount; very heavy and solid
39. naval ar____a *n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things
40. an ell_____al galaxies *adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
41. a two-dimensional ar__y *n.* a large group or collection of things or people, especially one that is impressive or attractive
42. nuclear pro_____on *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
43. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
44. a jutting c__n *n.* the lowermost part of a person's face, below the mouth and above the neck
45. eva_____on cooling *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources

ANSWERS: 37. analyze, 38. massive, 39. armada, 40. elliptical, 41. array, 42. propulsion, 43. accelerate, 44. chin, 45. evaporation

46. pose for a se___e *n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media
47. an ab_____te must *adj.* perfect or complete or to the most considerable degree possible
48. lava bo_____r *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
49. a he___c poem *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
50. lunar cr___r *n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
51. su_____e beforehand *v.* to think that something is likely to be actual or possible
52. m_r a proper relationship *v.* to damage or spoil the appearance or surface of something
53. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
54. bo___e across the floor *v.* to cause to move up or away after hitting a surface; to spring back
55. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 46. selfie, 47. absolute, 48. boulder, 49. heroic, 50. crater, 51. suppose, 52. mar, 53. centimeter, 54. bounce, 55. feat

56. th____l energy *adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat
57. en____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
58. artificial hib____on *n.* a state of inactivity and metabolic depression in animals during the winter
59. in____or decoration *n.* the inside or inner part of something; the space within the walls of a building
60. color pi__ls *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
61. ev____te almost overnight *v.* to turn a liquid into a gas; to become less intense and disappear gradually
62. ma____e stars *adj.* enormous amount; very heavy and solid
63. me____me report *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
64. driving di____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
65. ro____y explain my idea *adv.* approximately but not precisely; with a violent manner
66. the piano passages in the com____on *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone

ANSWERS: 56. thermal, 57. engineer, 58. hibernation, 59. interior, 60. pixel, 61. evaporate, 62. massive, 63. meantime, 64. distance, 65. roughly, 66. composition

67. career tra_____ry *n.* the curved path followed by an object moving through space
68. su_____e you're right *v.* to think that something is likely to be actual or possible
69. love tr_____le *n.* a three-sided polygon with three angles; something that has three sides or parts
70. incredible th____l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
71. re-em_____ce of rampant inflation *n.* the process or fact of coming into existence or becoming apparent
72. m_r the reputation *v.* to damage or spoil the appearance or surface of something
73. 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
74. made a great ma_____er *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
75. ta_____um capacitor *n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties
76. su_____t that he is sick *v.* to consider anything to be actual or probable

ANSWERS: 67. trajectory, 68. suppose, 69. triangle, 70. thrill, 71. emergence, 72. mar, 73. discovery, 74. maneuver, 75. tantalum, 76. suspect

84. dy_____cs of group *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
85. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
86. the meridian al_____de *n.* the height of an object or point in relation to sea level or ground level
87. glass ex_____or *adj.* situated in or suitable for the outdoors or outside of something
88. gene va_____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
89. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
90. ab_____te loyalty *adj.* perfect or complete or to the most considerable degree possible
91. co_____d and control *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

ANSWERS: 84. dynamics, 85. array, 86. altitude, 87. exterior, 88. variation, 89. process, 90. absolute, 91. command

92. a la____rk discovery *n.* a notable or important event, place, or achievement; a significant object or feature that serves as a reference point
93. 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
94. control my em____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
95. a_m to be a nurse *v.* to try or plan to get or achieve something
96. apply the br__e *n.* a device used to slow or stop a moving vehicle, typically by applying pressure to the wheels
97. the event ho____n of a black hole *n.* the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
98. the bottomless p_t *n.* a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
99. lay the cor____ne *n.* a fundamental or essential element or component of something; a basis or foundation upon which something is built or developed
100. co____r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

ANSWERS: 92. landmark, 93. planet, 94. emotion, 95. aim, 96. brake, 97. horizon, 98. pit, 99. cornerstone, 100. confer

101. not no____ly drink much *adv.* usually; under normal conditions
102. heroic e__c *n.* a long and eventful or heroic history, story, poem, or film; (adjective) very imposing or impressive
103. di____d the downloaded data *v.* to throw something away or get rid of something that you no longer wanted or need
104. biomass f__l *n.* a substance that is typically burned to generate heat or energy
105. app____ly unrelated *adv.* based on what you have heard or read
106. the c__w of a fishing boat *n.* a group of people who work together, especially on a ship or airplane
107. b__e diameter *v.* to make someone feel weary or uninterested, often by talking at length about uninteresting or mundane topics; to cause someone to feel bored or unengaged; (noun) a hole or tunnel drilled or dug into the ground, either for exploration or extraction of natural resources
108. stable is____e *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
109. in____ct with one another *v.* to communicate or react with somebody
110. the dr__l hit the well *n.* a tool or machine used for making round holes or driving fasteners; a training or practice

ANSWERS: 101. normally, 102. epic, 103. discard, 104. fuel, 105. apparently, 106. crew, 107. bore, 108. isotope, 109. interact, 110. drill

111. business ren_____us *n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location
112. plenty of in_____or space *n.* the inside or inner part of something; the space within the walls of a building
113. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
114. radioactive is_____e *n.* a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
115. pro_____on technology *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
116. the attraction of gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
117. in_____ct directly with customers *v.* to communicate or react with somebody
118. as_____id explorer *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
119. an imp_____ve array of facts *adj.* arousing admiration due to size, quality, or skill

ANSWERS: 111. rendezvous, 112. interior, 113. graph, 114. isotope, 115. propulsion, 116. gravity, 117. interact, 118. asteroid, 119. impressive

120. mathematical pu___e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
121. the p__k current in the circuit *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
122. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
123. his research area of con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
124. 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
125. com_____le sales *adj.* able to link the similarities or differences with others; similar or equivalent to someone or something
126. a ha__y-sized bag *adj.* valuable and convenient; easy or ready to reach or use
127. de_____t his criticism *v.* to cause something, especially a criticism or attack, to be directed away from someone
128. job ro_____on *n.* the action or process of moving in a circle around an axis or center

ANSWERS: 120. puzzle, 121. peak, 122. technique, 123. concentration, 124. achieve, 125. comparable, 126. handy, 127. deflect, 128. rotation

129. th____l insulation *adj.* relating to heat or temperature; designed for or capable of producing or maintaining heat
130. di____d old beliefs *v.* to throw something away or get rid of something that you no longer wanted or need
131. Jo____n planet *adj.* relating to Jupiter or its characteristics
132. bo____ap method *n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance
133. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
134. tr____le shape *n.* a three-sided polygon with three angles; something that has three sides or parts
135. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
136. b__t him in the face *v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

ANSWERS: 129. thermal, 130. discard, 131. Jovian, 132. bootstrap, 133. brain, 134. triangle, 135. process, 136. belt

137. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
138. a_m at a specific target *v.* to try or plan to get or achieve something
139. sh___w puppetry *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner
140. the qu__t for truth *n.* a long or challenging search for something
141. ev_____te the water *v.* to turn a liquid into a gas; to become less intense and disappear gradually
142. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
143. sl_____ot projectile *n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles
144. ha_____y through my journey *adj.* in or at a point midway or an equal distance between two points
145. ou___s pollutants *v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds

ANSWERS: 137. perspective, 138. aim, 139. shadow, 140. quest, 141. evaporate, 142. centimeter, 143. slingshot, 144. halfway, 145. outgas

146. co__t Halley *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
147. crossword pu___e *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
148. hum_____de climate change *adj.* created or produced by humans; artificial
149. bo_____r field *n.* a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion
150. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
151. television i__n *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
152. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
153. cli_____er measurement *n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes
154. di_____er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference

ANSWERS: 146. comet, 147. puzzle, 148. human-made, 149. boulder, 150. nervous, 151. icon, 152. feat, 153. clinometer, 154. diameter

155. initial ve____ty *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
156. aquatic co____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
157. ta____um alloy *n.* a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties
158. slow eva____on *n.* the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
159. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
160. afraid to show em____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
161. population de____y *n.* the quality of compactness of a substance
162. harmful co____nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

ANSWERS: 155. velocity, 156. compound, 157. tantalum, 158. evaporation, 159. jet, 160. emotion, 161. density, 162. compound

163. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
164. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
165. form a nu_____s *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
166. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
167. sl_____ot aim *n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles
168. arrive and de____t on time *v.* to go away or leave, especially to start a journey
169. immediate vi_____ty *n.* the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region
170. ou____s odors *v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds

ANSWERS: 163. perspective, 164. parallel, 165. nucleus, 166. recognize, 167. slingshot, 168. depart, 169. vicinity, 170. outgas

171. short du____on *n.* the length of time something lasts or continues
172. gets m_d easily *adj.* insane, especially due to a mental illness; very angry
173. es___t for VIPs *n.* a person or group of people accompanying someone for protection, guidance, or courtesy; a companion or attendant; a service or a person providing a service for accompanying someone or something to or from a destination
174. city and its vi____ty *n.* the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region
175. f__e their homes *v.* to leave by running away, especially out of fear or danger
176. co_____d a battery *n.* authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something
177. make a cal_____on *n.* the act or process of using numbers to judge an amount of something
178. se___e stick *n.* a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media
179. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

ANSWERS: 171. duration, 172. mad, 173. escort, 174. vicinity, 175. flee, 176. command, 177. calculation, 178. selfie, 179. recognize

189. on a qu__t for happiness *n.* a long or challenging search for something
190. a br___h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
191. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
192. lose ent_____sm *n.* a strong feeling of excitement and interest in a particular subject or cause and an eagerness to become involved in it
193. d__e structure *n.* a rounded vault forming the roof of a building or structure, typically with a circular base
194. digital cli_____er *n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes
195. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
196. write him an answer imm_____ly *adv.* now or without delay
197. c__n rest *n.* the lowermost part of a person's face, below the mouth and above the neck
198. rechargeable lithium-i_n battery *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

ANSWERS: 189. quest, 190. branch, 191. parallel, 192. enthusiasm, 193. dome, 194. clinometer, 195. jet, 196. immediately, 197. chin, 198. ion

199. at p__k hour *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
200. br__e pedal *n.* a device used to slow or stop a moving vehicle, typically by applying pressure to the wheels
201. or___n of information *n.* the first existence or beginning of something
202. sw__p up dead leaves *v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly
203. romantic ren_____us *n.* a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location
204. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
205. get ne_____s *adj.* worried and anxious about something; relating to the nerves
206. achieve the hi_____ic feat *adj.* famous or significant in history, or potentially so
207. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
208. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said

ANSWERS: 199. peak, 200. brake, 201. origin, 202. sweep, 203. rendezvous, 204. distance, 205. nervous, 206. historic, 207. technique, 208. variation

209. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
210. em_____ce as a national leader *n.* the process or fact of coming into existence or becoming apparent
211. a GPS sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
212. e__c battle *n.* a long and eventful or heroic history, story, poem, or film; (adjective) very imposing or impressive
213. int_____ng character *adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating
214. an una_____le accident *adj.* impossible to avoid or evade; inevitable
215. unflagging ent_____sm *n.* a strong feeling of excitement and interest in a particular subject or cause and an eagerness to become involved in it
216. ar___a ships *n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things
217. sn__f the air *v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

ANSWERS: 209. split, 210. emergence, 211. satellite, 212. epic, 213. intriguing, 214. unavoidable, 215. enthusiasm, 216. armada, 217. sniff

218. the du____on of insurance *n.* the length of time something lasts or continues
219. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
220. personal es____t *n.* a person or group of people accompanying someone for protection, guidance, or courtesy; a companion or attendant; a service or a person providing a service for accompanying someone or something to or from a destination
221. a period of ro____on *n.* the action or process of moving in a circle around an axis or center
222. Jo____n satellites *adj.* relating to Jupiter or its characteristics
223. pa____le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
224. de____t from the faith *v.* to go away or leave, especially to start a journey
225. a meteorological sa____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
226. a particle di____er *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference

ANSWERS: 218. duration, 219. gravity, 220. escort, 221. rotation, 222. Jovian, 223. particle, 224. depart, 225. satellite, 226. diameter

227. ig___e passion v. to set on fire; to cause to start burning
228. com_____te his anxieties to the psychiatrist v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
229. sn__f the perfume v. to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
230. hi_____ic accomplishment *adj.* famous or significant in history, or potentially so
231. cor_____ne of democracy *n.* a fundamental or essential element or component of something; a basis or foundation upon which something is built or developed
232. unanimously ap_____e a resolution v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
233. r_t with age v. to decay, or cause something to decay, naturally and gradually
234. pi__l density *n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
235. we__h heavily on stock prices v. to have a particular weight; to carefully evaluate things before making a conclusion
236. na_____te the Pacific v. to plan and direct the way that a ship, plane, etc. will travel, often by using a map

ANSWERS: 227. ignite, 228. communicate, 229. sniff, 230. historic, 231. cornerstone, 232. approve, 233. rot, 234. pixel, 235. weigh, 236. navigate

237. racial or ___n	<i>n.</i> the first existence or beginning of something
238. cr ___r lake	<i>n.</i> a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite
239. the DNA se ____ce	<i>n.</i> a series of related events, actions, numbers, etc., which have a particular order
240. permanent br __n damage	<i>n.</i> the organ inside the head that is responsible for one's movement, thought, memory, and feeling
241. the se ____ce of the seasons	<i>n.</i> a series of related events, actions, numbers, etc., which have a particular order
242. the worst hum ____de disaster	<i>adj.</i> created or produced by humans; artificial
243. new ex ____or design	<i>adj.</i> situated in or suitable for the outdoors or outside of something
244. lo ___e a missing pet	<i>v.</i> to specify or determine the exact position of someone or something
245. su ____t a plot	<i>v.</i> to consider anything to be actual or probable
246. a five-plane fl __y	<i>n.</i> a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
247. high ve ____ty	<i>n.</i> the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

ANSWERS: 237. origin, 238. crater, 239. sequence, 240. brain, 241. sequence, 242. human-made, 243. exterior, 244. locate, 245. suspect, 246. flyby, 247. velocity

248. an ell_____al motion *adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself
249. ig___e a boom *v.* to set on fire; to cause to start burning
250. higher pixel de_____y *n.* the quality of compactness of a substance
251. ro___t fuel *n.* a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
252. key co_____nt *n.* one of several parts that combines with others to form something bigger
253. so___m bicarbonate *n.* a metallic element that is the most common alkali metal and is used in the production of many chemicals, including soap, glass, and paper
254. ap_____e a measures *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
255. political ma_____ers *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
256. sw___p a room with a glance *v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly
257. imm_____ly recall a product *adv.* now or without delay

ANSWERS: 248. elliptical, 249. ignite, 250. density, 251. rocket, 252. component, 253. sodium, 254. approve, 255. maneuver, 256. sweep, 257. immediately

265. I__k a classified memo *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
266. the nu____s of a team *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
267. i__n for young people *n.* a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file
268. under una_____le circumstances *adj.* impossible to avoid or evade; inevitable
269. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
270. i_n channel *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
271. br___h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
272. ma_____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel

ANSWERS: 265. leak, 266. nucleus, 267. icon, 268. unavoidable, 269. determinant, 270. ion, 271. branch, 272. magnetic

273. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
274. 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
275. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
276. 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
277. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
278. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
279. eat or_____c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
280. alien spa_____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
281. pr__e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

ANSWERS: 273. complexity, 274. launch, 275. atmosphere, 276. discovery, 277. crack, 278. determinant, 279. organic, 280. spacecraft, 281. probe

282. a m_d person *adj.* insane, especially due to a mental illness; very angry
283. ro____y speaking *adv.* approximately but not precisely; with a violent manner
284. de____t of family *n.* the act or process of moving downward; a person's family origins
285. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
286. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
287. ma_____um alloy *n.* a silvery-white metal with the symbol Mg and atomic number 12, which is the eighth-most abundant element in the Earth's crust and is used in the production of various alloys, as well as in biomedical research and as an important nutrient for plants and animals
288. charged pa_____le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
289. mag_____ter readings *n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
290. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 282. mad, 283. roughly, 284. descent, 285. concentration, 286. spacecraft, 287. magnesium, 288. particle, 289. magnetometer, 290. launch

291. co___r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
292. hib_____on period *n.* a state of inactivity and metabolic depression in animals during the winter
293. sh___w cast *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner
294. historical la_____rk *n.* a notable or important event, place, or achievement; a significant object or feature that serves as a reference point
295. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
296. the surface of the co__t *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
297. bo_____ap framework *n.* a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance
298. or_____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

ANSWERS: 291. confer, 292. hibernation, 293. shadow, 294. landmark, 295. gravitational, 296. comet, 297. bootstrap, 298. organic

299. de_____t from nobility *n.* the act or process of moving downward; a person's family origins
300. a tra_____ry missile *n.* the curved path followed by an object moving through space
301. as_____id mining *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
302. the film c__w *n.* a group of people who work together, especially on a ship or airplane
303. high-resolution mag_____ter *n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
304. app_____ly simple *adv.* based on what you have heard or read
305. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
306. l__k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container

ANSWERS: 299. descent, 300. trajectory, 301. asteroid, 302. crew, 303. magnetometer, 304. apparently, 305. impressive, 306. leak

Session 3: Fill in the Blanks

1. 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

2. Dolphins use sound to _____ with each other.
 - v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

3. The Spanish _____ was a powerful fleet of ships that attempted to invade England in 1588.
 - n.* a large fleet of warships or other vessels, typically organized for a specific military purpose and often under the command of a single admiral; a large group of powerful or influential people or things

4. The _____ launch platform is visible from this hill.
 - n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon

5. A suspension order from the court is effective _____.
 - adv.* now or without delay

6. An enormous _____ marks the area where the vast volcanic explosion occurred.
 - n.* a huge bowl-shaped cavity in the earth or an object in space, usually created by an explosion or the impact of a meteorite

7. Several military _____ programs have become popular methods of exercise.
 - n.* a tool or machine used for making round holes or driving fasteners; a training or practice

ANSWERS: 1. investigated, 2. communicate, 3. Armada, 4. rocket, 5. immediately, 6. crater, 7. drill

8. High temperatures can cause certain plastics to _____ volatile compounds.
- v.* to release or emit gas, vapor, or volatile substances, often due to heating or changing environmental conditions, particularly in the context of materials or objects made of plastics, adhesives, or other chemical compounds
9. 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
10. The _____ from the mountain was steep and rocky.
- n.* the act or process of moving downward; a person's family origins
11. The _____ of the car was too fast for the road conditions.
- n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
12. The military _____ between the two armies was one for the history books.
- n.* a long and eventful or heroic history, story, poem, or film; (adjective) very imposing or impressive
13. He should _____ more with his colleagues.
- v.* to communicate or react with somebody
14. They found a _____ place to play catch.
- adj.* valuable and convenient; easy or ready to reach or use
15. The results of that election put a _____ on political reform.
- n.* a device used to slow or stop a moving vehicle, typically by applying pressure to the wheels

ANSWERS: 8. outgas, 9. achieve, 10. descent, 11. velocity, 12. epic, 13. interact, 14. handy, 15. brake

16. He walked a road _____ to the railroad.

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

17. The mining of _____ in some regions has led to environmental degradation.

n. a hard, blue-gray metallic element with the symbol "Ta" and atomic number 73 often used in the production of electronic components and alloys due to its high melting point and conductivity properties

18. In the _____ while we wait for the results, let's start working on the next project.

n. the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else

19. The soccer player was able to _____ the ball away from the goal.

v. to cause something, especially a criticism or attack, to be directed away from someone

20. Some comic book characters are considered gay _____.

n. a picture or statue of a holy person considered to be a sacred thing; a little icon on the screen of a computer or smartphone that denotes an application or a file

21. The Chinese people have accomplished several _____ feats.

adj. famous or significant in history, or potentially so

22. The sun will _____ the mist.

v. to turn a liquid into a gas; to become less intense and disappear gradually

23. 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

ANSWERS: 16. parallel, 17. tantalum, 18. meantime, 19. deflect, 20. icons, 21. historic, 22. evaporate, 23. launch

24. The Empire State Building is a _____ in New York City.
- n.* a notable or important event, place, or achievement; a significant object or feature that serves as a reference point
25. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.
- n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
26. The spacecraft _____ will help scientists study the magnetic fields of distant planets, offering insights into their composition and history.
- n.* a scientific instrument used to measure the strength and direction of a magnetic field, commonly used in geophysics, navigation, and physics research to detect and study magnetic fields
27. There is a lot of _____ in the colors of flowers in the garden.
- n.* the act or state of changing; a difference or change in the way something is done, made or said
28. What do you _____ the culprit's motive was?
- v.* to think that something is likely to be actual or possible
29. It is a basic instinct to _____ from a dangerous situation.
- v.* to leave by running away, especially out of fear or danger
30. The _____ moon Europa is believed to have an ocean beneath its icy surface.
- adj.* relating to Jupiter or its characteristics
31. This jigsaw _____ is challenging because there are no pictures.
- n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

ANSWERS: 24. landmark, 25. ion, 26. magnetometer, 27. variation, 28. suppose, 29. flee, 30. Jovian, 31. puzzle

32. The _____ force of the black hole was so strong that nothing, not even light, could escape.
adj. relating to or caused by gravity (= the force that attracts objects towards one another)
33. The budget reduction was an _____ feat for our nation.
adj. arousing admiration due to size, quality, or skill
34. Many animals go into _____ during the winter to conserve energy and survive the harsh conditions.
n. a state of inactivity and metabolic depression in animals during the winter
35. The kidney is an _____ component of the body.
adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
36. This electronic _____ is required to undergo periodic inspections to ensure precision.
n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
37. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
38. His father's death changed his whole _____ on life.
n. a confident attitude toward something; a particular style of thinking about something

ANSWERS: 32. gravitational, 33. impressive, 34. hibernation, 35. organic, 36. instrument, 37. asteroid, 38. perspective

39. The bridge is a _____ structure and was built to span the river.
adj. created or produced by humans; artificial
40. The ____ flew over the ocean at high speed, reaching its destination in hours.
n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
41. This bar _____ shows sales over the past five years.
n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
42. He _____ serious accounting irregularities that only people in the company's executive could know.
v. to allow liquid or gas to get in or out from a hole or crack in a pipe or container
43. The cops _____ him of being the killer.
v. to consider anything to be actual or probable
44. Please refrigerate the meat, or it will _____.
v. to decay, or cause something to decay, naturally and gradually
45. The formation of clouds is facilitated by the process of _____ and condensation
n. the process of a liquid changing into a gas or vapor, often as a result of high temperatures or reduced pressure; the gradual disappearance or dissipation of something, such as money or resources
46. Their innovative concepts were consistent across their bodies of _____.
n. the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone

ANSWERS: 39. human-made, 40. jet, 41. graph, 42. leaked, 43. suspected, 44. rot, 45. evaporation, 46. composition

47. The band was _____ out old songs in response to audience requests.
v. to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
48. The leaders of the two countries met to _____ on the issue.
v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
49. The novel's plot was _____ and kept readers in their seats.
adj. arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating
50. The spider was camouflaged on the _____ rock, waiting for its next prey.
adj. having a dull brownish-gray color, often used to describe the color of certain animals, such as a dun horse; (verb) to repeatedly and insistently demand payment of a debt or money owed
51. The _____ imaging camera was used to detect heat signatures in the dark.
adj. relating to heat or temperature; designed for or capable of producing or maintaining heat
52. The military incarcerated him for the _____ of the war.
n. the length of time something lasts or continues
53. As the sun set, the colors of the sky merged with the _____ creating a beautiful orange and pink hue.
n. the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
54. 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

ANSWERS: 47. belting, 48. confer, 49. intriguing, 50. dun-colored, 51. thermal, 52. duration, 53. horizon, 54. planet

55. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
56. The _____ of a new virus can cause concern for public health.
- n.* the process or fact of coming into existence or becoming apparent
57. 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
58. The scratches on the car _____ its otherwise perfect appearance.
- v.* to damage or spoil the appearance or surface of something
59. The lecture on quantum physics _____ me to tears.
- v.* to make someone feel weary or uninterested, often by talking at length about uninteresting or mundane topics; to cause someone to feel bored or unengaged; (noun) a hole or tunnel drilled or dug into the ground, either for exploration or extraction of natural resources
60. Effective communication is often considered the _____ of a successful team.
- n.* a fundamental or essential element or component of something; a basis or foundation upon which something is built or developed
61. NASA sent a _____ to study the atmosphere of Jupiter.
- n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

ANSWERS: 55. engineer, 56. emergence, 57. thrill, 58. marred, 59. bored, 60. cornerstone, 61. probe

62. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
- n.* a notable or impressive achievement, especially one that requires great skill or bravery
63. One _____ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
64. The computer screen comprises thousands of tiny _____ that create the overall picture.
- n.* the smallest unit of an image that can be displayed or manipulated electronically, typically a point of light on a computer screen or in a digital image
65. The kids used a _____ to launch small stones into the pond.
- n.* a Y-shaped stick with an elastic band attached for shooting small stones or other projectiles
66. The cathedral _____ soared high above, its stained-glass windows casting colorful light on the altar below.
- n.* a rounded vault forming the roof of a building or structure, typically with a circular base
67. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 62. feat, 63. determinant, 64. pixels, 65. slingshot, 66. dome, 67. process

68. The company has shown an excellent growth _____ over the years.
n. the curved path followed by an object moving through space
69. Many startups use _____ funding to get their businesses off the ground.
n. a loop or strap on a boot that is used to pull it on; a self-starting process, often in IT or business, that is designed for beginning or continuing without external assistance
70. The _____ bright tail could be seen in the night sky.
n. a celestial object consisting of a nucleus of ice and dust that goes around the sun
71. My boss wouldn't _____ of the plan.
v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
72. The spaceship began to burn up as it approached the Earth's _____.
n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
73. The _____ force of the earth keeps our planet spinning.
adj. having the properties of attracting or repelling certain materials containing iron or steel
74. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
75. The spacecraft will conduct a _____ of the moon to gather data.
n. a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit

ANSWERS: 68. trajectory, 69. bootstrap, 70. comet's, 71. approve, 72. atmosphere, 73. magnetic, 74. apparently, 75. flyby

76. DNA is stored in the _____ of a cell.
- n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
77. The researchers try to discover a common _____ in all types of successful organizations.
- n.* one of several parts that combines with others to form something bigger
78. The tree cast a _____ over the picnic area, providing relief from the sun.
- n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner
79. We _____ before the temperature fell below zero.
- v.* to go away or leave, especially to start a journey
80. 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
81. The _____ of the avocado can be removed by gently wedging a spoon around it.
- n.* a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
82. The politician tried to _____ the embarrassing incident under the rug.
- v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly

ANSWERS: 76. nucleus, 77. component, 78. shadow, 79. departed, 80. spot, 81. pit, 82. sweep

83. They will _____ between various emotional states.

v. to cause to move up or away after hitting a surface; to spring back

84. The relationship _____ between the two countries were complex and constantly changing.

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

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

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

86. The hikers had to climb over a _____ that was blocking their path.

n. a large, smooth rock, typically one that has been worn away from a cliff or mountain by erosion

87. Our _____ point was the coffee shop on the corner.

n. a meeting or appointment that has been arranged beforehand; a gathering of people in a pre-arranged location

88. The ship's _____ worked hard to repair the damaged sails before the next storm hit.

n. a group of people who work together, especially on a ship or airplane

89. We are tackling the development for updates with _____.

n. a strong feeling of excitement and interest in a particular subject or cause and an eagerness to become involved in it

90. We _____ for an overseas expansion.

v. to try or plan to get or achieve something

ANSWERS: 83. bounce, 84. dynamics, 85. brain, 86. boulder, 87. rendezvous, 88. crew, 89. enthusiasm, 90. aim

91. 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
92. The plane flew at a high _____ to avoid turbulence.
n. the height of an object or point in relation to sea level or ground level
93. He used an ___ to chop the firewood for the campfire.
n. a tool with a metal blade that is usually attached to a wooden handle and is used for chopping wood or other materials
94. The area in the _____ of the mall is known for its heavy traffic congestion.
n. the area or region surrounding or in the general vicinity of a particular place or location; a nearby or neighboring region
95. She took a _____ in front of the famous tower and shared it on the app.
n. a photograph that one has taken of oneself, typically one taken with a smartphone or webcam to share on social media
96. The teacher attempted to _____ the root cause of our mistake.
v. to think about in-depth and evaluate to discover essential features or meaning
97. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
98. The _____ actions of individuals are now easily spread worldwide by SNS.
adj. courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
99. He was ___ with joy to see the results.
adj. insane, especially due to a mental illness; very angry

ANSWERS: 91. complexity, 92. altitude, 93. ax, 94. vicinity, 95. selfie, 96. analyze, 97. origin, 98. heroic, 99. mad

100. The spacecraft's _____ system helped it travel through space.

- n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

101. Taking _____ supplements can help alleviate muscle soreness after working out.

- n.* a silvery-white metal with the symbol Mg and atomic number 12, which is the eighth-most abundant element in the Earth's crust and is used in the production of various alloys, as well as in biomedical research and as an important nutrient for plants and animals

102. The rocket engine is used to put the satellite into _____.

- n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

103. The error in the _____ was attributable to rounding.

- n.* the act or process of using numbers to judge an amount of something

104. An _____ of bodyguards surrounded the celebrity to keep fans safe.

- n.* a person or group of people accompanying someone for protection, guidance, or courtesy; a companion or attendant; a service or a person providing a service for accompanying someone or something to or from a destination

105. The recent economic downturn has resulted in _____ layoffs.

- adj.* enormous amount; very heavy and solid

106. He _____ the old torn shirt and bought a new one.

- v.* to throw something away or get rid of something that you no longer wanted or need

ANSWERS: 100. propulsion, 101. magnesium, 102. orbit, 103. calculation, 104. escort, 105. massive, 106. discarded

107. The customer on the Internet has to choose one from a formidable _____ of products.
n. a large group or collection of things or people, especially one that is impressive or attractive
108. There are now fears that war is _____.
adj. impossible to avoid or evade; inevitable
109. The famous restaurant stands _____ up the hill.
adj. in or at a point midway or an equal distance between two points
110. The Pythagorean theorem is used to calculate the length of the sides of a right _____.
n. a three-sided polygon with three angles; something that has three sides or parts
111. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
112. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
113. Common salt is a sodium and chlorine _____.
n. an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
114. 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

ANSWERS: 107. array, 108. unavoidable, 109. halfway, 110. triangle, 111. sequence, 112. roughly, 113. compound, 114. discovery

115. He that would eat the kernel must _____ the nut.

- v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

116. Jockey's superior _____ brought him victory.

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

117. Do you know the _____ of the population in Hong Kong?

- n.* the quality of compactness of a substance

118. Our knowledge helps _____ our clients successfully.

- v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map

119. We seek a person _____ for the post.

- adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job

120. The _____ of the Earth causes day and night.

- n.* the action or process of moving in a circle around an axis or center

121. The dog stopped to _____ around the tree, looking for something interesting.

- v.* to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

122. The surveyor took a _____ reading to determine the exact angle of the hill's slope for the construction project.

- n.* a measuring instrument used to determine the angle or inclination of an object or surface with respect to the vertical or horizontal planes

ANSWERS: 115. crack, 116. technique, 117. density, 118. navigate, 119. qualified, 120. rotation, 121. sniff, 122. clinometer

123. Gandhi had an _____ zeal for nonviolence.

adj. perfect or complete or to the most considerable degree possible

124. This measurement aims to reduce traffic at _____ periods.

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

125. He _____ the fireworks with a single spark.

v. to set on fire; to cause to start burning

126. He scraped his _____ when he fell off his bike.

n. the lowermost part of a person's face, below the mouth and above the neck

127. Companies often _____ their shares to lower the stock price and encourage investors to buy.

v. to divide, or to make something divide into two or more parts, especially along a particular line

128. The baby _____ 1 pound 3 oz.

v. to have a particular weight; to carefully evaluate things before making a conclusion

129. Draw a circle five centimeters in _____.

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

130. The general gave a _____ to his troops to prepare for battle.

n. authority, control, or mastery over something, often referring to military or leadership contexts; a directive, order, or instruction; expertise or confidence in a specific area; (verb) to give an authoritative order or instruction, or to be in charge or control of something

ANSWERS: 123. absolute, 124. peak, 125. ignited, 126. chin, 127. split, 128. weighs, 129. diameter, 130. command

131. Humans and apes have _____ anatomical structures.

adj. able to link the similarities or differences with others; similar or equivalent to someone or something

132. Some _____ are common across cultures and backgrounds.

n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

133. We can calculate the position of the _____ statistically.

n. a small piece of something; a word or piece of a term with grammatical function but little or no significance

134. The _____ of the tree had fallen and blocked the road.

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

135. The robot can accurately _____ construction material.

v. to specify or determine the exact position of someone or something

136. This exam requires excellent _____ to pass.

n. the ability to focus all your time and energy on one thing without thinking about anything else.

137. Four _____ walls surround the courtyard.

adj. situated in or suitable for the outdoors or outside of something

138. High levels of _____ in the diet can increase the risk of developing high blood pressure.

n. a metallic element that is the most common alkali metal and is used in the production of many chemicals, including soap, glass, and paper

ANSWERS: 131. comparable, 132. emotions, 133. particles, 134. branch, 135. locate, 136. concentration, 137. exterior, 138. sodium

139. The painter focused on the moody _____ of abandoned buildings in his work.
n. the inside or inner part of something; the space within the walls of a building
140. I don't _____ take a vacation in the middle of summer.
adv. usually; under normal conditions
141. The government tried to _____ the commercialization of this development.
v. to make something faster or earlier; to cause to develop or progress more quickly
142. The astronaut felt weightless in space due to the absence of _____.
n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
143. He suffers from _____ breakdowns.
adj. worried and anxious about something; relating to the nerves
144. The marathon runner covered a long _____ in a short amount of time.
n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
145. The _____ carbon-14 is commonly used in radiocarbon dating of fossils.
n. a variation of an element that has the same number of protons in its nucleus but a different number of neutrons, resulting in a different atomic mass and often different physical or chemical properties
146. Launching an artificial _____ contributed to the technological development of our country.
n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 139. interiors, 140. normally, 141. accelerate, 142. gravity, 143. nervous, 144. distance, 145. isotope, 146. satellite

147. In this class, we learn the basic _____ of the plane.

- n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

148. That adventurer traveled in _____ of buried treasure.

- n.* a long or challenging search for something

149. The human-crewed _____ successfully landed on the moon, fulfilling its mission.

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

150. The _____ scarcity most severely impacted the manufacturing sector

- n.* a substance that is typically burned to generate heat or energy

151. The satellite's _____ orbit made it appear to change its distance from earth.

- adj.* having the shape of an oval (= a closed plane curve); using a word or expression that is ambiguous or vague, especially to mislead or avoid committing oneself

152. The room was only one _____ wider than the piano, making it a tight fit.

- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

153. It's important to _____ your strengths and weaknesses.

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

ANSWERS: 147. maneuver, 148. quest, 149. spacecraft, 150. fuel, 151. elliptical, 152. centimeter, 153. recognize