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Vocabulary Builder Reference from...

Heidi Hammel and Nadia Drake: The marvels and mysteries revealed by the James Webb Space Telescope | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

shiny

adj. reflecting light and having a bright and smooth surface

synonym : polished, glossy, lustrous

(1) **shiny** surface, (2) **shiny** object

The **shiny** new car drew everyone's attention as it drove by.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

universe

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

synonym : cosmos, macrocosm

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

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

expand

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

synonym : extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output
They hope to **expand** their business worldwide.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
synonym: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors
The Milky Way **galaxy** has numerous water-bearing planets.

expansion

n. the process of becoming larger or more extensive, or the result of this process
synonym: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project
The company is undergoing an **expansion**, opening new locations in several states.

likewise

adv. in the same way
synonym: alike, correspondingly, similarly

(1) do **likewise**, (2) please revise **likewise**
He is tall and **likewise** strong.

shift

n. a slight transition in position, direction, or trend
synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**
Could you help me **shift** some furniture?

wavelength

n. the distance between two points in the same phase in consecutive cycles of a wave

(1) **wavelength** of light, (2) long- **wavelength** laser
White color is made up of many different **wavelengths** of light.

concept

n. an idea or principle associated with something abstract
synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car
One such rapidly growing **concept** is quantum cryptography.

generation

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

synonym: cohort, age group, era

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

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

advance

v. to go or move forward; to develop in a positive way

synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

infrared

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

synonym: thermal, warm, radiant

(1) an **infrared** lamp, (2) **infrared** radiation

The **infrared** camera revealed a hidden image on the surface.

spectrum

n. an ordered array of colors into which a light beam can be split

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

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.

stable

adj. firm and steady; not easily moved, disturbed, or changed

synonym: sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively **stable** due to the summit meeting.

pristine

adj. new and completely free from dirt or contamination

synonym: chaste, pure, immaculate

(1) **pristine** beach, (2) maintain the **pristine** condition

It is terrific to camp in **pristine** nature.

molecular

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

synonym: microscopic, atomic

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

Molecular weight is the sum of all the atoms.

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**.

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.

proposal

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

synonym: offer, suggestion, proposition

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

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

interdisciplinary

adj. involving or combining several academic disciplines or fields of study

synonym: multidisciplinary, transdisciplinary

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

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

observation

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

synonym: watching, notice, reflection

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

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

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.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

meter

n. a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

synonym: gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

segment

n. a part or section of something; a distinct group within a larger whole

synonym: section, part, division

(1) **segment** analysis, (2) market **segment**

The report divided the data into **segments** based on age, gender, and income level.

honeycomb

n. a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young

synonym: hexagonal, beehive, lattice

(1) **honeycomb** lattice, (2) **honeycomb** pattern

The beehive was made of an intricate **honeycomb** pattern.

unfold

v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

synonym: open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

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.

contraption

n. a machine or device that is made up of a combination of interconnected parts and often appears complicated or unusual

synonym: device, gadget, machinery

(1) farming **contraption**, (2) complicated **contraption**

The inventor created a **contraption** that could turn salt water into drinking water.

underneath

adv. under or below something else

synonym : below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

shield

n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

synonym : guard, protection, safeguard

(1) a heat **shield**, (2) a **shield** for protecting against a bullet
Lead is an effective **shield** against X-rays, gamma rays, and other harmful radiation.

crucial

adj. extremely vital or necessary

synonym : essential, pivotal, vital

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

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

wit

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

synonym : humor, comedy, funniness

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

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

deploy

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

synonym : set up, expand, launch

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

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

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.

unbolt

n. to remove a bolt or lock from a door or window

synonym: unlock, unfasten, open

(1) **unbolt** direction of evolution, (2) **unbolt** the lock

She had to **unbolt** the door to escape the room.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

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**.

deliberately

adv. done in an intentional or slow and careful manner

synonym: intentionally, knowingly, willfully

(1) **deliberately** amateurish, (2) commit a crime

deliberately

He **deliberately** misleads others.

umbrella

n. a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun

synonym: parasol, canopy, sunshade

(1) **umbrella** coverage, (2) **umbrella** ban

She opened her **umbrella** to protect herself from the rain.

environment

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

synonym: atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's

environment.

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

enclose

v. to surround, as with a fence, wall, or barrier; to put within boundaries; to include

synonym : surround, encase, contain

(1) **enclose** a check with a letter, (2) **enclose** area

The walls were **enclosed** to create a private outdoor space.

analogy

n. a comparison between similar things that have similar aspects, often used to help explain a principle or concept

synonym : metaphor, comparison, parallel

(1) draw **analogy**, (2) historical **analogy**

Some kinds of machine learning models show an **analogy** to how people learn.

grain

n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

synonym : seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

fingertip

n. the end or tip of a finger

(1) apply **fingertip** pressure, (2) burn my **fingertip**

The archaeologist ran his **fingertips** along the pattern of the tombstones.

backyard

n. a whole space behind and belonging to a house

synonym: courtyard, garden

(1) play in the **backyard**, (2) **backyard** barbecue

He grows vegetables in his **backyard**.

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.

mind-blowing

adj. extremely impressive in a way that affects someone's mind or emotions

synonym: amazing, incredible, shocking

(1) **mind-blowing** discovery, (2) a **mind-blowing** horror story

The **mind-blowing** effects of the psychedelic drug were unlike anything he had ever experienced.

peer

n. a person who has the same age, status, or ability

synonym: fellow, associate, counterpart

(1) **peer** group, (2) **peer** review

Among young people, **peer** pressure can be pretty influential.

primordial

adj. existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe

synonym: ancient, original, primary

(1) **primordial** forms of life, (2) **primordial** gas

The discovery of the **primordial** soup was a crucial step in understanding the origins of life on Earth.

cosmic

adj. relating to the universe or cosmos; vast or limitless

synonym : astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

Cosmic rays are high-energy particles that originate from outside the solar system.

murky

adj. dark and gloomy or difficult to see through

synonym : dim, fuzzy, foggy

(1) **murky** waters, (2) a **murky** dungeon

Prospects for the suspect's conviction are **murky** due to a lack of helpful evidence.

craft

n. an activity that requires a particular skill in making things with one's hands

synonym : art, skill, workmanship

(1) **craft** arts of Japan, (2) **craft** manufacture

His hometown was where he first acquired the **craft** of wood carving.

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.

phenomenal

adj. extremely good or impressive; outstanding

synonym : extraordinary, remarkable, impressive

(1) **phenomenal** success, (2) **phenomenal** growth

The athlete's **phenomenal** performance broke all previous records.

vision

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

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

concrete

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

synonym : actual, factual, hardened

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

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

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.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym : exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

beryllium

n. a light, strong, brittle metallic element with the symbol Be and atomic number 4, used in nuclear reactors, aerospace, and other high-tech applications

synonym : Be, glucinium

(1) **beryllium** ore, (2) **beryllium** alloy

The rocket's casing was made of **beryllium** for its light weight and strength.

miner

n. a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially

one who extracts coal, minerals, or precious metals from the Earth

synonym : digger, excavator, miner

(1) **miner** strike, (2) **miner** industry

The coal **miner** worked tirelessly to extract valuable minerals from deep underground.

cable

n. a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

synonym : wire, cord, rope

(1) **cable** television, (2) coaxial **cable**

This system uses submarine **cables** to exchange information between continents.

wrap

v. to cover or enclose something entirely with paper, cloth, or other material

synonym : surround, cover, bandage

(1) **wrap** a fish in foil, (2) **wrap** up a meeting

Wrap the bandage tightly around the injured arm.

suite

n. a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person

synonym : set, series, collection

(1) **suite** room, (2) **suite** of products

The presidential **suite** is the most luxurious room in the hotel.

spectrograph

n. an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies

synonym : spectrometer, spectroscope, instrument

(1) **spectrograph** analysis, (2) acoustic **spectrograph**

The **spectrograph** data showed that the element was

composed of multiple spectral lines.

guidance

n. advice or instructions given to help direct someone's behavior or decision-making

synonym: advice, direction, support

(1) vocational **guidance**, (2) **guidance** counselor

The mentor provided **guidance** to the young entrepreneur, helping her navigate the business world.

sensor

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

synonym: detector

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

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

revolution

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

synonym: coup, innovation, rebellion

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

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

cosmos

n. another name for the universe, mainly used when it is thought of as an ordered system

synonym: universe, macrocosm

(1) exploration of **cosmos**, (2) origin of the **cosmos**

Supercomputers enable scientists to create computational models of the **cosmos**.

release

v. to set free or allow to escape from confinement

synonym: free, let go, discharge

(1) **release** a prisoner, (2) **release** CO₂ into the air

The animal rights group worked to **release** the dolphins back

into the wild.

aspect

n. one part or feature of a situation, problem, subject, etc.
synonym: characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

evocative

adj. tending to evoke or bring something to mind

synonym: suggestive, stimulating, provocative

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

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

poetic

adj. of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way

synonym: literary, verse-like, rhythmic

(1) **poetic** genius, (2) **poetic** justice

The sunset was so beautiful it looked like a **poetic** scene from a movie.

poke

v. to push or prod with a sharp object or the finger

synonym: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

stick

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

synonym : pierce, adhere, stay

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

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

dramatic

adj. very sudden, very excellent, or full of action and excitement

synonym : striking, theatrical, breathtaking

(1) make **dramatic** changes, (2) a **dramatic** rescue at sea

The statement had a **dramatic** impact on house prices.

structure

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

synonym : construction, architecture, establishment

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

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

knob

n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

synonym : handle, lever

(1) handy **knob**, (2) **knob** closure

The **knob** on the drawer was loose and needed to be tightened.

nebula

n. a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source

synonym : cloud, mist, stardust

(1) a spiral **nebula**, (2) emission **nebula**

The galactic **nebula** was a beautiful sight through the telescope, with its vibrant colors and swirling clouds.

swirl

v. to move in a circular or spiral pattern

synonym : spin, whirl, turn

(1) **swirl** the wine, (2) **swirl** up dirt and dust
The chef expertly **swirled** the sauce onto the plate.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym: record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

static

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

synonym: immobile, unchanging, fixed

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

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

quintet

n. a group or set of five people or things or a musical composition for five performers

synonym: five-piece, ensemble

(1) **quintet** group, (2) piano **quintet**

The **quintet** of musicians played a beautiful symphony together.

interloper

n. a person who intrudes into a place or sphere of activity where they are not wanted or are considered not to belong

synonym: intruder, trespasser, intruder

(1) an annoying **interloper**, (2) interstellar **interloper**

The **interloper** at the party was not on the guest list and was asked to leave.

foreground

n. the part of a view, picture, etc., that is nearest to the viewer

(1) **foreground** segmentation, (2) **foreground** galaxy

A happy group of friends occupies the **foreground** of the

picture.

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.

photobombing

n. the act of unexpectedly appearing in someone else's photo as a joke or ruining the shot

(1) a squirrel **photobombing**, (2) **photobombing** accident

A **photobombing** seagull ruined the group photo.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

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.

overlap

v. to partially cover something by going beyond its edge

synonym: overlay, cover, bespread

(1) **overlap** one another, (2) **overlap** in many areas

There was no **overlap** between their proposals.

realm

n. a domain of activity, interest, or knowledge

synonym: domain, empire, kingdom

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

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

ongoing

adj. continuing to exist or develop, or currently happening
synonym : continuous, current, proceeding

(1) still **ongoing**, (2) **ongoing** support

The new prime minister has vowed to take measures against the **ongoing** economic crisis.

sensitivity

n. the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others

synonym : alertness, attentiveness, sympathy

(1) **sensitivity** analysis, (2) become full of **sensitivity**

The instrument has a high **sensitivity** to temperature changes.

astronomy

n. the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

synonym : astrophysics, stargazing, cosmology

(1) **astronomy** science, (2) a branch of **astronomy**

He had a deep passion for extragalactic **astronomy** and spent hours observing the night sky.

rainbow

n. an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain

synonym : spectrum, iridescence, prism

(1) marine **rainbow**, (2) **rainbow** after a storm

She was mesmerized by the **rainbow's** colors.

fingerprint

n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

synonym : print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or

more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

molecule

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

synonym : particle, element, atom

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

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

absorb

v. to take in a fluid or other substance gradually

synonym : consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock

The sponge **absorbs** water well.

construct

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

synonym : build, assemble, create

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

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

vibration

n. a continuous quick and slight shaking movement

synonym : oscillation, fluctuation, reverberation

(1) protection against **vibration**, (2) sympathetic **vibration**

Vibration displaced part of the mechanism.

temperature

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

synonym : climate, warmth, degree

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

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

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym : extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

tomography

n. a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound

synonym : imaging, scanning, x-ray

(1) acoustic **tomography**, (2) **tomography** image

The **tomography** scan showed a clear image of the patient's internal organs.

astrophysics

n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

(1) **astrophysics** research, (2) neutrino **astrophysics**

He was studying **astrophysics** in an attempt to understand the origins of the universe.

spectral

adj. relating to or having the properties of a spectrum (= an ordered array of colors into which a light beam can be split); relating to a ghost or apparition

synonym : spiritual, ghostly, otherworldly

(1) two **spectral** bands, (2) **spectral** colors

The **spectral** analysis revealed unexpected details about the composition of the planet's atmosphere.

astronomer

n. a physicist who studies astronomy

synonym : stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

constituent

n. one of the parts of the whole; a person represented by an elected official

synonym : member, element, part

(1) **constituent** assembly, (2) the solid **constituent** of blood cells

Each **constituent** member of the council has the right to vote on important decisions.

helium

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

synonym : He, light gas, noble gas

(1) **helium** atom, (2) **helium** gas

The **helium-filled** balloons floated into the sky.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

nickel

n. a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar

synonym : metal, coin, alloy

(1) **nickel** ore, (2) **nickel** plate

The **nickel** in my pocket jingled as I walked.

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.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym : big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

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.

voyage

n. a long journey, especially by sea or in space

synonym : journey, trip, excursion

(1) a **voyage** of discovery, (2) take a **voyage**

The astronaut trained for years before embarking on her **voyage** to the International Space Station.

faint

adj. not strong, clear, or vigorous; slight or weak

synonym : slight, vague, soft

(1) **faint** memory, (2) **faint** aroma of roses

She heard a **faint**, nearly invisible scream.

incredibly

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

synonym : enormously, exceptionally, extraordinarily

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

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

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym : exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

scatter

v. to cause to separate and go in different directions

synonym : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

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.

screw

v. to turn something, such as a bolt, with a driver or wrench to tighten or loosen it; (noun) a cylindrical rod with a helical ridge used to fasten things together

synonym : tighten, fix, secure

(1) **screw** the cap, (2) a female **screw**

He had to **screw** the loose knob back onto the cabinet door.

resolve

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

synonym : decide, determine, fix

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

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

survey

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

synonym : study, examination, poll

(1) a comprehensive **survey**, (2) recent **survey**

That **survey** shows that people are accepting the tax increase to some extent.

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**.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym : fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

zone

n. a specific area, region, or section that is marked off or defined in some way

synonym : area, region, territory

(1) time **zone**, (2) **zone** defense

He was reluctant to leave his comfort **zone** and try something new.

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.

alien

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

synonym : foreigner, unfamiliar, unknown

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

Alien species have drastically altered the ecosystem in this area.

experiment

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

synonym : experimentation, investigation

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

His **experiments** showed highly positive results.

doe

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

synonym : rabbit, bunny, hare

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

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

separate

v. to force, take, or pull apart; mark as different
synonym : disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

psychology

n. the scientific study of mind and behavior

(1) **psychology** experiment, (2) **psychology** of crowd

She had a master's degree in **psychology**.

terrestrial

adj. of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air

synonym : earthy, earthborn, telluric

(1) **terrestrial** planets, (2) **terrestrial** heat

Terrestrial longitude is measured in degrees east or west of the Prime Meridian.

initially

adv. at the beginning; at first

synonym : originally, primarily, firstly

(1) **initially** anticipated, (2) diagnosed **initially** as a tumor

This train departed later than **initially** scheduled.

rover

n. a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon

synonym : vehicle, robot, explorer

(1) **rover** mission, (2) lunar **rover**

The **rover** on Mars is gathering data on the planet's surface and sending it back to Earth.

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.

ancient

adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

synonym : archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

biosignature

n. distinctive chemical or physical features that indicate the presence of past or current life

synonym : indicators, signs, evidence

(1) **biosignatures** detection, (2) **biosignatures** discovery

Scientists are searching for **biosignatures** on other planets that could indicate the presence of life.

specifically

adv. only associated with or meant for one thing

synonym : especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically** American customers

This ad campaign is aimed **specifically** at young women.

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.

curveball

n. a pitch in baseball that breaks unexpectedly; a surprising or unexpected twist or turn in a situation

synonym : surprise, twist, deviation

(1) life's little **curveball**, (2) **curveball** situation

The pitcher threw a sharp **curveball** that the batter was not expecting.

exquisite

adj. extremely beautiful and delicate

synonym : magnificent, glorious, gorgeous

(1) **exquisite** crafts, (2) a man of **exquisite** sensitivity

We can hear an **exquisite** piano melody from his room.

sediment

n. the substance that forms a solid layer at the bottom of the liquid

synonym: deposition, residue

(1) **sediment** runoff, (2) gravel **sediment**

Heavy rain often washes away **sediments** of the river.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym: catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

pole

n. one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something

synonym: rod, staff, shaft

(1) a fishing **pole**, (2) the plus **pole**

The North **Pole** is the northernmost point on Earth.

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym: convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

inward

adj. directed or facing towards the inside; inside or inward-looking

synonym: internal, introspective, interior

(1) **inward** peace, (2) **inward** cargo
The **inward** motion of the tide was gradually slowing down.

Martian

adj. of or relating to Mars or its imaginary inhabitants

(1) **Martian** geography, (2) **Martian** surface

There is very little water in the **Martian** atmosphere.

definition

n. a concise explanation of the meaning of a word, phrase, or symbol

synonym: description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

confine

v. to restrict the movement of someone or something

synonym: restrict, limit, contain

(1) **confine** themselves solely, (2) **confine** the scope of use

The animal was **confined** in a small cage.

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.

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.

crazy

adj. stupid or not sensible; very angry

synonym: insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

mind-boggling

adj. extremely surprising or overwhelming and, therefore, difficult to understand or imagine

synonym: overwhelming, amazing, astonishing

(1) a **mind-boggling** puzzle, (2) a **mind-boggling** display

Educating hundreds of thousands of recruits is a **mind-boggling** task.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish

synonym: element, component

(1) secret **ingredients**, (2) compound the **ingredients**

Greed is the primary **ingredient** in the making of criminals.

astrobiology

n. the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life

(1) **astrobiology** finding, (2) valuable data for **astrobiology**

The discovery of liquid water on Mars has opened up new avenues for **astrobiology** research.

lingo

n. the special vocabulary or terminology used by a particular group or profession

synonym: language, jargon, slang

(1) computer **lingo**, (2) medical **lingo**

The language used in the article was technical **lingo**, making it difficult for non-experts to understand.

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.

internal

adj. of or relating to the inside of something

synonym : interior, inner, domestic

(1) **internal** organs, (2) the **internal** economy

The prime minister canceled visits to other countries to resolve **internal** disputes.

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.

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.

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.

solid

adj. hard or firm; characterized by good substantial quality

synonym : stable, reliable, hard

(1) **solid** ally, (2) **solid** employment measures

The **solid-state** of water is called ice.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

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

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

volcano

n. a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

synonym : mount, peak, crater

(1) **volcano** alert level, (2) active **volcano**

The island was formed by a **volcano** millions of years ago.

resonant

adj. tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling

synonym : echoing, reverberating, resonating

(1) **resonant** with the sound, (2) **resonant** cavity

The **resonant** frequency of the guitar string was measured with a tuner.

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**.

flex

v. to show off one's strength, power, or possessions; to bend or be capable of bending easily

synonym : bend, stretch, extend

(1) **flex** a finger, (2) **flex** diplomatic muscle

The gymnast was able to **flex** his muscles to perform the difficult routine.

illustrate

v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation

synonym : demonstrate, explain, exemplify

(1) **illustrate** a key point, (2) **illustrate** a story

The company's financial records **illustrate** how successful it has been.

creditor

n. a person, company, etc. to whom a debtor owes money
(1) the **creditor's** claims, (2) bankrupt **creditor**
I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

rocky

adj. full of or abounding in rocks; of, relating to, or made of rock
synonym: stony, boulder-strewn, rough
(1) **rocky** terrain, (2) **rocky** relationship
The **rocky** road made it difficult to drive on.

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.

clip

n. a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
synonym: buckle, hook, pin
(1) tie **clip**, (2) short video **clip**
He fastens some sheets of paper with a **clip**.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.
synonym: chat, discussion, dialogue
(1) **conversation** in English, (2) a friendly **conversation**
Your **conversation** reflects your thoughts.

retrograde

adj. moving or occurring in a direction opposite to the usual or normal one or going back to an earlier or worse condition
synonym: backward, regressive, declining
(1) **retrograde** motion, (2) **retrograde** arguments
The **retrograde** motion of the planet was unusual and

required further investigation.

backward

adv. at, to, or toward the direction or place that is behind or rear

synonym: back, rearward, in reverse

(1) walk **backward**, (2) **backward** angle

She falls over **backward** when she sees her mother-in-law.

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.

capture

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

synonym: catch, arrest, imprison

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

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

twin

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

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

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

remarkable

adj. worthy of attention because unusual or special

synonym: outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

terrain

n. the physical features of a piece of land, including hills, valleys, rivers, and forests

synonym: land, geography, topography

(1) **terrain** map, (2) permafrost **terrain**

The mountainous **terrain** was rough and rocky.

cryovolcano

n. a type of volcano that erupts volatile substances such as gases or cryo-lavas (cold, volatile-rich mixtures) instead of molten rock (magma)

(1) **cryovolcano** eruption, (2) **cryovolcano** activity

Scientists believe a **cryovolcano** may have erupted on one of Saturn's moons.

erupt

v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

synonym: eject, emit, burst

(1) **erupt** in anger, (2) **erupt** into tears

Battles between whites and blacks **erupted** immediately.

abode

n. a place where one lives; a dwelling; a house, or other shelters

synonym: dwelling, residence, home

(1) a temporary **abode**, (2) humble **abode**

The small cabin in the woods was his **abode** for many years.

goofy

adj. silly or foolish

synonym: silly, crazy, dopey

(1) wear a **goofy** hat, (2) with a **goofy** expression

He made a **goofy** face as he recalled this morning's events.

carsick

adj. feeling nauseous or dizzy as a result of being in a moving vehicle

synonym: nauseous, dizzy, queasy

(1) get **carsick** easily, (2) feel **carsick**

The car's motion made her **carsick**, and she had to pull over.

dip

v. to put something into a liquid for a short time and take it out again

synonym: dunk, dive, plunge

(1) **dip** a pen in ink, (2) **dip** a chip in the sauce
Please **dip** up a bucketful of water from the well.

kindle

v. to start a fire; to light
synonym: ignite, light, start

(1) **kindle** strife, (2) **kindle** a passion
He **kindled** a fire in the fireplace to warm the room.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement
synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition
He has a flair for **mathematics**.

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
synonym: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior
They **encouraged** customers with a premium for loyal patronage.

recommendation

n. an official suggestion that something is good or suitable for a particular purpose or job
synonym: guidance, advice, suggestion

(1) follow his **recommendations**, (2) a letter of **recommendation**
We made a **recommendation** to the client.

chemistry

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

quota

n. a limited amount or share of something assigned or allocated; a restriction on the number of people or goods that can enter or leave a country

synonym : allotment, share, portion

(1) an import **quota**, (2) admission **quota**

Each country was given a **quota** for the fish they were allowed to catch.

graduate

n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym : alumna, alum, grad

(1) **graduate** degree program, (2) honor **graduate**

Many employers hire **graduate** trainees to train as managers.

nag

v. to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse

synonym : hassle, bother, badger

(1) **nag** about the minor thing, (2) **nag** political leaders

She couldn't stop **nagging** her husband to take out the trash.

unanswered

adj. not responded to or explained

synonym : ignored, unrequited, undecided

(1) **unanswered** love, (2) **unanswered** e-mail

Pardon me for leaving some of your questions **unanswered**.

bug

n. any tiny insect; a fault or defect in a computer program, system, or machine

synonym : insect, bacterium, microbe

(1) **bug** bites, (2) number of **bug** fixes

I found a stink **bug** crawling across the ceiling.

disparate

adj. very different or distinct from something else and is not connected or comparable in any way

synonym: different, distinct, separate

(1) **disparate** impact, (2) physically **disparate** location

The organization worked to bring together **disparate** groups in the community.

coherent

adj. logical and consistent; (noun) the quality of being clear and easy to understand

synonym: logical, consistent, clear

(1) a **coherent** explanation, (2) create a **coherent** system

His writing was well-structured and **coherent**.

inhabit

v. to live in a specific location; to reside

synonym: settle, occupy, populate

(1) **inhabit** a cave, (2) **inhabit** the stomach

I have no idea what sort of folks **inhabit** the neighborhood.

happenstance

n. an occurrence that happens by chance; a fortuitous event, or a coincidence

synonym: coincidence, chance, accident

(1) **happenstance** event, (2) meet by **happenstance**

It was a mere **happenstance** that they both ended up at the same restaurant.

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.

volatile

adj. likely to change rapidly or unexpectedly, or being unstable or explosive

synonym: unstable, unpredictable, explosive

(1) highly- **volatile** elements, (2) **volatile** markets

Their relationship was **volatile** and prone to sudden outbursts of anger.

Session 2: Spelling

1. meet by hap_____nce
n. an occurrence that happens by chance; a fortuitous event, or a coincidence
2. exploration of co____s
n. another name for the universe, mainly used when it is thought of as an ordered system
3. ast_____ics research
n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
4. we__h a cargo
v. to have a particular weight; to carefully evaluate things before making a conclusion
5. mu__y waters
adj. dark and gloomy or difficult to see through
6. 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
7. co_____e themselves solely
v. to restrict the movement of someone or something
8. with a go__y expression
adj. silly or foolish
9. phe_____al growth
adj. extremely good or impressive; outstanding
10. handy k__b
n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

ANSWERS: 1. happenstance, 2. cosmos, 3. astrophysics, 4. weigh, 5. murky, 6. launch, 7. confine, 8. goofy, 9. phenomenal, 10. knob

- | | |
|---|--|
| 11. sw__p a room with a glance | <i>v.</i> to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly |
| 12. int_____ary research | <i>adj.</i> involving or combining several academic disciplines or fields of study |
| 13. exp_____nt design | <i>n.</i> the scientific test conducted to observe what happens and gain new knowledge |
| 14. ev_____ve memories | <i>adj.</i> tending to evoke or bring something to mind |
| 15. st_____re and function of the brain | <i>n.</i> the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts |
| 16. ro___t attack against the enemy | <i>n.</i> 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 |
| 17. a min_____ing display | <i>adj.</i> extremely surprising or overwhelming and, therefore, difficult to understand or imagine |
| 18. ast_____ogy finding | <i>n.</i> the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life |
| 19. the rem_____le breadth of knowledge | <i>adj.</i> worthy of attention because unusual or special |
| 20. sc_____r around the internet | <i>v.</i> to cause to separate and go in different directions |
| 21. cu_____ll situation | <i>n.</i> a pitch in baseball that breaks unexpectedly; a surprising or unexpected twist or turn in a situation |

ANSWERS: 11. sweep, 12. interdisciplinary, 13. experiment, 14. evocative, 15. structure, 16. rocket, 17. mind-boggling, 18. astrobiology, 19. remarkable, 20. scatter, 21. curveball

22. re_____e a prisoner *v.* to set free or allow to escape from confinement
23. on_____g support *adj.* continuing to exist or develop, or currently happening
24. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
25. full of w_t *n.* the ability to say or write things or ideas in a clever and humorous way
26. the c__e of an apple *n.* the most essential or fundamental part of something
27. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
28. ab____b a shock *v.* to take in a fluid or other substance gradually
29. beyond the re__m of possibility *n.* a domain of activity, interest, or knowledge
30. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
31. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
32. un____t direction of evolution *n.* to remove a bolt or lock from a door or window
33. se_____te video into chapter *v.* to force, take, or pull apart; mark as different

ANSWERS: 22. release, 23. ongoing, 24. molecule, 25. wit, 26. core, 27. chemistry, 28. absorb, 29. realm, 30. spectrum, 31. exposed, 32. unbolt, 33. separate

34. maintain the pr____ne condition *adj.* new and completely free from dirt or contamination
35. elliptic ga____y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
36. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
37. com____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
38. st____c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing
39. in____or decoration *n.* the inside or inner part of something; the space within the walls of a building
40. ill____te a story *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
41. a vo____e of discovery *n.* a long journey, especially by sea or in space
42. an annoying int____er *n.* a person who intrudes into a place or sphere of activity where they are not wanted or are considered not to belong
43. in____ct directly with customers *v.* to communicate or react with somebody
44. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 34. pristine, 35. galaxy, 36. trap, 37. complexity, 38. static, 39. interior, 40. illustrate, 41. voyage, 42. interloper, 43. interact, 44. tube

45. a letter of rec_____ion *n.* an official suggestion that something is good or suitable for a particular purpose or job
46. po___c genius *adj.* of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way
47. sw__l up dirt and dust *v.* to move in a circular or spiral pattern
48. re_____nt with the sound *adj.* tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling
49. en_____e a check with a letter *v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include
50. a sh___d for protecting against a bullet *n.* a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
51. z___e defense *n.* a specific area, region, or section that is marked off or defined in some way
52. number of b_g fixes *n.* any tiny insect; a fault or defect in a computer program, system, or machine
53. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
54. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
55. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 45. recommendation, 46. poetic, 47. swirl, 48. resonant, 49. enclose, 50. shield, 51. zone, 52. bug, 53. environment, 54. resolve, 55. extraordinary

56. vo____le markets *adj.* likely to change rapidly or unexpectedly, or being unstable or explosive
57. the in____al economy *adj.* of or relating to the inside of something
58. neutrino ast____ics *n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
59. ro__r mission *n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon
60. in____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
61. 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
62. solar ast____er *n.* a physicist who studies astronomy
63. p__r group *n.* a person who has the same age, status, or ability
64. und____th the laughter *adv.* under or below something else
65. re____e CO2 into the air *v.* to set free or allow to escape from confinement
66. major paradigm sh__t *n.* a slight transition in position, direction, or trend
67. a lunar pr__e *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: 56. volatile, 57. internal, 58. astrophysics, 59. rover, 60. involve, 61. discovery, 62. astronomer, 63. peer, 64. underneath, 65. release, 66. shift, 67. probe

68. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
69. the w_t of man *n.* the ability to say or write things or ideas in a clever and humorous way
70. se_____te cream from milk *v.* to force, take, or pull apart; mark as different
71. motion se____r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
72. a temporary ab__e *n.* a place where one lives; a dwelling; a house, or other shelters
73. in____d cargo *adj.* directed or facing towards the inside; inside or inward-looking
74. Doppler sh__t *n.* a slight transition in position, direction, or trend
75. cr__y about cars and racing *adj.* stupid or not sensible; very angry
76. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
77. in____d peace *adj.* directed or facing towards the inside; inside or inward-looking
78. in_____ed radiation *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

ANSWERS: 68. universe, 69. wit, 70. separate, 71. sensor, 72. abode, 73. inward, 74. shift, 75. crazy, 76. sequence, 77. inward, 78. infrared

79. gravel se_____nt *n.* the substance that forms a solid layer at the bottom of the liquid
80. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
81. te_____n map *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
82. con_____nt assembly *n.* one of the parts of the whole; a person represented by an elected official
83. spe_____aph analysis *n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
84. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
85. ma_____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
86. sw__p up dead leaves *v.* to clean something, especially a floor or an area, by using a broom; move swiftly and smoothly
87. he___m gas *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

ANSWERS: 79. sediment, 80. stick, 81. terrain, 82. constituent, 83. spectrograph, 84. incredibly, 85. magnetic, 86. sweep, 87. helium

88. fa__t aroma of roses *adj.* not strong, clear, or vigorous; slight or weak
89. a co_____nt explanation *adj.* logical and consistent; (noun) the quality of being clear and easy to understand
90. en_____ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
91. a five-plane fl__y *n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
92. f__x diplomatic muscle *v.* to show off one's strength, power, or possessions; to bend or be capable of bending easily
93. computer li__o *n.* the special vocabulary or terminology used by a particular group or profession
94. apply fi_____ip pressure *n.* the end or tip of a finger
95. in_____t the stomach *v.* to live in a specific location; to reside
96. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
97. an import qu__a *n.* a limited amount or share of something assigned or allocated; a restriction on the number of people or goods that can enter or leave a country

ANSWERS: 88. faint, 89. coherent, 90. encourage, 91. flyby, 92. flex, 93. lingo, 94. fingertip, 95. inhabit, 96. trap, 97. quota

98. take a vo___e *n.* a long journey, especially by sea or in space
99. und_____th the surface of the water *adv.* under or below something else
100. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
101. acoustic spe_____aph *n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
102. m_r the reputation *v.* to damage or spoil the appearance or surface of something
103. 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
104. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
105. a glass t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
106. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 98. voyage, 99. underneath, 100. ingredient, 101. spectrograph, 102. mar, 103. discovery, 104. capture, 105. tube, 106. planet

107. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
108. amateur ast_____er *n.* a physicist who studies astronomy
109. fin_____nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
110. re_____nt cavity *adj.* tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling
111. a min_____ing horror story *adj.* extremely impressive in a way that affects someone's mind or emotions
112. fl__y mission *n.* a close approach to a celestial body, especially a planet, by a spacecraft without landing or entering orbit
113. get ca_____k easily *adj.* feeling nauseous or dizzy as a result of being in a moving vehicle
114. sh__y surface *adj.* reflecting light and having a bright and smooth surface
115. tie c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
116. short video c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
117. k__b closure *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet

ANSWERS: 107. experiment, 108. astronomer, 109. fingerprint, 110. resonant, 111. mind-blowing, 112. flyby, 113. carsick, 114. shiny, 115. clip, 116. clip, 117. knob

118. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
119. diagnosed in_____ly as a tumor *adv.* at the beginning; at first
120. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
121. p__e around the desk *v.* to push or prod with a sharp object or the finger
122. d_p a pen in ink *v.* to put something into a liquid for a short time and take it out again
123. wav_____th of light *n.* the distance between two points in the same phase in consecutive cycles of a wave
124. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
125. 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
126. pr_____ne beach *adj.* new and completely free from dirt or contamination
127. ho_____mb pattern *n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
128. n_g about the minor thing *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse

ANSWERS: 118. tremendous, 119. initially, 120. exposed, 121. poke, 122. dip, 123. wavelength, 124. weigh, 125. planet, 126. pristine, 127. honeycomb, 128. nag

129. in____t a cave *v.* to live in a specific location; to reside
130. ex_____on project *n.* the process of becoming larger or more extensive, or the result of this process
131. honor gr_____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
132. w__p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material
133. for_____nd segmentation *n.* the part of a view, picture, etc., that is nearest to the viewer
134. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
135. for spe _____lly American customers *adv.* only associated with or meant for one thing
136. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
137. play in the ba_____rd *n.* a whole space behind and belonging to a house
138. f__x a finger *v.* to show off one's strength, power, or possessions; to bend or be capable of bending easily
139. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
140. a gas me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

ANSWERS: 129. inhabit, 130. expansion, 131. graduate, 132. wrap, 133. foreground, 134. spectrum, 135. specifically, 136. definition, 137. backyard, 138. flex, 139. gravitational, 140. meter

141. psy_____gy experiment *n.* the scientific study of mind and behavior
142. protection against vi_____on *n.* a continuous quick and slight shaking movement
143. the film c__w *n.* a group of people who work together, especially on a ship or airplane
144. an_____t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
145. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone
146. have a st___e job *adj.* firm and steady; not easily moved, disturbed, or changed
147. d_e rabbit *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
148. ki___e strife *v.* to start a fire; to light
149. se_____t analysis *n.* a part or section of something; a distinct group within a larger whole
150. be_____um ore *n.* a light, strong, brittle metallic element with the symbol Be and atomic number 4, used in nuclear reactors, aerospace, and other high-tech applications
151. market se_____t *n.* a part or section of something; a distinct group within a larger whole
152. resident al__ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

ANSWERS: 141. psychology, 142. vibration, 143. crew, 144. ancient, 145. observation, 146. stable, 147. doe, 148. kindle, 149. segment, 150. beryllium, 151. segment, 152. alien

153. beginning of the industrial
rev_____on
154. um_____la coverage
155. en_____ge a sense of affinity
156. oxygen a__m
157. get ne_____s
158. de___y troops for battle
159. ab_____te loyalty
160. physically di_____te location
161. surgical ins_____nts
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
- n.* a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
- v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
- adj.* worried and anxious about something; relating to the nerves
- v.* to move troops or weapons into a position or military action; to bring into something in an effective way
- adj.* perfect or complete or to the most considerable degree possible
- adj.* very different or distinct from something else and is not connected or comparable in any way
- 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: 153. revolution, 154. umbrella, 155. encourage, 156. atom, 157. nervous, 158. deploy, 159. absolute, 160. disparate, 161. instrument

162. nontechnical as___ts of the job *n.* one part or feature of a situation, problem, subject, etc.
163. time z__e *n.* a specific area, region, or section that is marked off or defined in some way
164. so__d employment measures *adj.* hard or firm; characterized by good substantial quality
165. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
166. long-wav_____th laser *n.* the distance between two points in the same phase in consecutive cycles of a wave
167. tom_____hy image *n.* a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound
168. two sp_____al bands *adj.* relating to or having the properties of a spectrum (= an ordered array of colors into which a light beam can be split); relating to a ghost or apparition
169. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
170. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
171. ter_____al heat *adj.* of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air

ANSWERS: 162. aspect, 163. zone, 164. solid, 165. gravitational, 166. wavelength, 167. tomography, 168. spectral, 169. conversation, 170. mathematics, 171. terrestrial

172. make dr____ic changes *adj.* very sudden, very excellent, or full of action and excitement
173. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
174. ov____p one another *v.* to partially cover something by going beyond its edge
175. pri____al gas *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
176. the c__w of a fishing boat *n.* a group of people who work together, especially on a ship or airplane
177. vocational gu____ce *n.* advice or instructions given to help direct someone's behavior or decision-making
178. obs____on instrument *n.* the act or activity of carefully examining or monitoring something or someone
179. a ch____al compound *adj.* relating to or connected with chemistry;
180. er__t into tears *v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
181. ca____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
182. become full of sen____ty *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
183. gu____ce counselor *n.* advice or instructions given to help direct someone's behavior or decision-making

ANSWERS: 172. dramatic, 173. giant, 174. overlap, 175. primordial, 176. crew, 177. guidance, 178. observation, 179. chemical, 180. erupt, 181. capture, 182. sensitivity, 183. guidance

184. marine ra____w *n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain
185. 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
186. ter____al planets *adj.* of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air
187. a squirrel pho____ing *n.* the act of unexpectedly appearing in someone else's photo as a joke or ruining the shot
188. an ab____te must *adj.* perfect or complete or to the most considerable degree possible
189. so__d ally *adj.* hard or firm; characterized by good substantial quality
190. un____t the lock *n.* to remove a bolt or lock from a door or window
191. designed spe____lly for men *adv.* only associated with or meant for one thing
192. um____la ban *n.* a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun
193. expansion of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 184. rainbow, 185. gravity, 186. terrestrial, 187. photobombing, 188. absolute, 189. solid, 190. unbolt, 191. specifically, 192. umbrella, 193. universe

194. sw__l the wine *v.* to move in a circular or spiral pattern
195. hap_____nce event *n.* an occurrence that happens by chance; a fortuitous event, or a coincidence
196. ad_____e the technology *v.* to go or move forward; to develop in a positive way
197. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
198. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
199. ra_____w after a storm *n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain
200. co_____e the scope of use *v.* to restrict the movement of someone or something
201. p__r review *n.* a person who has the same age, status, or ability
202. gr_____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
203. una_____ed e-mail *adj.* not responded to or explained
204. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
205. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

ANSWERS: 194. swirl, 195. happenstance, 196. advance, 197. tremendous, 198. engineer, 199. rainbow, 200. confine, 201. peer, 202. graduate, 203. unanswered, 204. definition, 205. molecular

206. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
207. in_____ct with one another *v.* to communicate or react with somebody
208. 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
209. he____m atom *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
210. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
211. a dr_____ic rescue at sea *adj.* very sudden, very excellent, or full of action and excitement
212. ki____e a passion *v.* to start a fire; to light
213. active vo_____o *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
214. a ma_____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
215. ho_____mb lattice *n.* a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
216. una_____ed love *adj.* not responded to or explained

ANSWERS: 206. environment, 207. interact, 208. spot, 209. helium, 210. backward, 211. dramatic, 212. kindle, 213. volcano, 214. magnetic, 215. honeycomb, 216. unanswered

217. a civil en_____er
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
218. di_____te impact
adj. very different or distinct from something else and is not connected or comparable in any way
219. ro__y relationship
adj. full of or abounding in rocks; of, relating to, or made of rock
220. gen_____on gap
n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity
221. an image se____r
n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
222. Jo____n planet
adj. relating to Jupiter or its characteristics
223. burn my fi_____ip
n. the end or tip of a finger
224. life's little cu_____ll
n. a pitch in baseball that breaks unexpectedly; a surprising or unexpected twist or turn in a situation
225. flour made from gr__n
n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
226. psy_____gy of crowd
n. the scientific study of mind and behavior
227. un____d the story
v. to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

ANSWERS: 217. engineer, 218. disparate, 219. rocky, 220. generation, 221. sensor, 222. Jovian, 223. fingertip, 224. curveball, 225. grain, 226. psychology, 227. unfold

228. del_____ely amateurish *adv.* done in an intentional or slow and careful manner
229. as_____my science *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
230. a comprehensive su____y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
231. pri_____al forms of life *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
232. emission ne____a *n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source
233. a min_____ing puzzle *adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine
234. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
235. humble ab__e *n.* a place where one lives; a dwelling; a house, or other shelters
236. ret_____de arguments *adj.* moving or occurring in a direction opposite to the usual or normal one or going back to an earlier or worse condition
237. farming con_____on *n.* a machine or device that is made up of a combination of interconnected parts and often appears complicated or unusual

ANSWERS: 228. deliberately, 229. astronomy, 230. survey, 231. primordial, 232. nebula, 233. mind-boggling, 234. telescope, 235. abode, 236. retrograde, 237. contraption

238. ro____y explain my idea *adv.* approximately but not precisely; with a violent manner
239. ev_____ve language *adj.* tending to evoke or bring something to mind
240. er__t in anger *v.* (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently
241. draw an_____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
242. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
243. do li_____se *adv.* in the same way
244. cry_____no activity *n.* a type of volcano that erupts volatile substances such as gases or cryo-lavas (cold, volatile-rich mixtures) instead of molten rock (magma)
245. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
246. w__p a fish in foil *v.* to cover or enclose something entirely with paper, cloth, or other material
247. plenty of in_____or space *n.* the inside or inner part of something; the space within the walls of a building
248. alien spa_____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
249. permafrost te_____n *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests

ANSWERS: 238. roughly, 239. evocative, 240. erupt, 241. analogy, 242. resolve, 243. likewise, 244. cryovolcano, 245. conversation, 246. wrap, 247. interior, 248. spacecraft, 249. terrain

250. ni___l ore *n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
251. a spiral ne___a *n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source
252. for_____nd galaxy *n.* the part of a view, picture, etc., that is nearest to the viewer
253. su___e room *n.* a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person
254. de_____t a blow *v.* to cause something, especially a criticism or attack, to be directed away from someone
255. ex_____te crafts *adj.* extremely beautiful and delicate
256. in_____al organs *adj.* of or relating to the inside of something
257. a mu___y dungeon *adj.* dark and gloomy or difficult to see through
258. cr__t arts of Japan *n.* an activity that requires a particular skill in making things with one's hands
259. follow his rec_____ions *n.* an official suggestion that something is good or suitable for a particular purpose or job

ANSWERS: 250. nickel, 251. nebula, 252. foreground, 253. suite, 254. deflect, 255. exquisite, 256. internal, 257. murky, 258. craft, 259. recommendation

260. 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
261. pho_____ing accident *n.* the act of unexpectedly appearing in someone else's photo as a joke or ruining the shot
262. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
263. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
264. feel ca_____k *adj.* feeling nauseous or dizzy as a result of being in a moving vehicle
265. 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
266. be_____um alloy *n.* a light, strong, brittle metallic element with the symbol Be and atomic number 4, used in nuclear reactors, aerospace, and other high-tech applications
267. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
268. ro_____y speaking *adv.* approximately but not precisely; with a violent manner

ANSWERS: 260. gravity, 261. photobombing, 262. chemistry, 263. aspect, 264. carsick, 265. launch, 266. beryllium, 267. sequence, 268. roughly

269. vo_____o alert level *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
270. acoustic tom_____hy *n.* a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound
271. co_____te examples *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
272. rem_____le achievement *adj.* worthy of attention because unusual or special
273. a cr_____l issue for women *adj.* extremely vital or necessary
274. ret_____de motion *adj.* moving or occurring in a direction opposite to the usual or normal one or going back to an earlier or worse condition
275. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
276. hy_____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
277. Ma_____n surface *adj.* of or relating to Mars or its imaginary inhabitants

ANSWERS: 269. volcano, 270. tomography, 271. concrete, 272. remarkable, 273. crucial, 274. retrograde, 275. disk, 276. hydrogen, 277. Martian

278. su__e of products *n.* a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person
279. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
280. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
281. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
282. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
283. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
284. cr_____l information *adj.* extremely vital or necessary
285. b_g bites *n.* any tiny insect; a fault or defect in a computer program, system, or machine
286. piano qu_____t *n.* a group or set of five people or things or a musical composition for five performers
287. create a co_____nt system *adj.* logical and consistent; (noun) the quality of being clear and easy to understand
288. 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

ANSWERS: 278. suite, 279. dimension, 280. incredibly, 281. backward, 282. advance, 283. amazing, 284. crucial, 285. bug, 286. quintet, 287. coherent, 288. rocket

289. an int_____ary conference *adj.* involving or combining several academic disciplines or fields of study
290. an innovative pr_____al *n.* a formal suggestion or offer, sometimes a written one
291. a heat sh____d *n.* a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
292. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
293. d_p a chip in the sauce *v.* to put something into a liquid for a short time and take it out again
294. po____c justice *adj.* of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way
295. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
296. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
297. ov_____p in many areas *v.* to partially cover something by going beyond its edge
298. coaxial ca__e *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

ANSWERS: 289. interdisciplinary, 290. proposal, 291. shield, 292. stick, 293. dip, 294. poetic, 295. temperature, 296. disk, 297. overlap, 298. cable

299. historical an____y *n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
300. bankrupt cr____or *n.* a person, company, etc. to whom a debtor owes money
301. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
302. compound the ing____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
303. live in a cl____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
304. de____t his criticism *v.* to cause something, especially a criticism or attack, to be directed away from someone
305. a man of ex____te sensitivity *adj.* extremely beautiful and delicate
306. sen____ty analysis *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
307. fa__t memory *adj.* not strong, clear, or vigorous; slight or weak
308. leather b__t *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
309. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are

ANSWERS: 299. analogy, 300. creditor, 301. vision, 302. ingredient, 303. cluster, 304. deflect, 305. exquisite, 306. sensitivity, 307. faint, 308. belt, 309. giant

310. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
311. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
312. valuable data for ast_____ogy *n.* the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
313. a fishing p__e *n.* one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something
314. second co___c velocity *adj.* relating to the universe or cosmos; vast or limitless
315. 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
316. a cr__y scheme *adj.* stupid or not sensible; very angry
317. fin_____nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
318. ab___b energy *v.* to take in a fluid or other substance gradually
319. hazardous li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

ANSWERS: 310. dimension, 311. spacecraft, 312. astrobiology, 313. pole, 314. cosmic, 315. probe, 316. crazy, 317. fingerprint, 318. absorb, 319. liquid

320. sh__y object *adj.* reflecting light and having a bright and smooth surface
321. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
322. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
323. mi__r industry *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
324. sc_____r seeds *v.* to cause to separate and go in different directions
325. Jo___n satellites *adj.* relating to Jupiter or its characteristics
326. cry_____no eruption *n.* a type of volcano that erupts volatile substances such as gases or cryo-lavas (cold, volatile-rich mixtures) instead of molten rock (magma)
327. origin of the co____s *n.* another name for the universe, mainly used when it is thought of as an ordered system
328. learn new co_____ts *n.* an idea or principle associated with something abstract
329. sp_____al colors *adj.* relating to or having the properties of a spectrum (= an ordered array of colors into which a light beam can be split); relating to a ghost or apparition

ANSWERS: 320. shiny, 321. molecule, 322. construct, 323. miner, 324. scatter, 325. Jovian, 326. cryovolcano, 327. cosmos, 328. concept, 329. spectral

330. min_____ing discovery *adj.* extremely impressive in a way that affects someone's mind or emotions
331. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
332. in_____ly anticipated *adv.* at the beginning; at first
333. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
334. qu_____t group *n.* a group or set of five people or things or a musical composition for five performers
335. tr_____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
336. toxic ch_____als *adj.* relating to or connected with chemistry;
337. cr__t manufacture *n.* an activity that requires a particular skill in making things with one's hands
338. 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
339. a female sc__w *v.* to turn something, such as a bolt, with a driver or wrench to tighten or loosen it; (noun) a cylindrical rod with a helical ridge used to fasten things together
340. 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
341. a planetary or__t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

ANSWERS: 330. mind-blowing, 331. temperature, 332. initially, 333. doe, 334. quintet, 335. transmit, 336. chemical, 337. craft, 338. atmosphere, 339. screw, 340. atmosphere, 341. orbit

342. please revise li____se *adv.* in the same way
343. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
344. a co_____te noun *adj.* existing in a physical or material form rather than an abstract one; based on facts rather than ideas or guesses; made of or covered with cement
345. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
346. lunar ro___r *n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon
347. mi___r strike *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
348. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
349. ba_____rd barbecue *n.* a whole space behind and belonging to a house
350. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
351. the plus p___e *n.* one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something

ANSWERS: 342. likewise, 343. expand, 344. concrete, 345. structure, 346. rover, 347. miner, 348. expand, 349. backyard, 350. transmit, 351. pole

352. a gr__n of sand *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
353. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
354. a prodigious vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
355. colorless li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
356. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
357. 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
358. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
359. industrial ex_____on *n.* the process of becoming larger or more extensive, or the result of this process
360. sympathetic vi_____on *n.* a continuous quick and slight shaking movement
361. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
362. the cr____or's claims *n.* a person, company, etc. to whom a debtor owes money

ANSWERS: 352. grain, 353. involve, 354. vision, 355. liquid, 356. revolution, 357. instrument, 358. extraordinary, 359. expansion, 360. vibration, 361. complexity, 362. creditor

363. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
364. in st___e condition *adj.* firm and steady; not easily moved, disturbed, or changed
365. se_____nt runoff *n.* the substance that forms a solid layer at the bottom of the liquid
366. commit a crime del_____ely *adv.* done in an intentional or slow and careful manner
367. highly-vo_____le elements *adj.* likely to change rapidly or unexpectedly, or being unstable or explosive
368. ware a go__y hat *adj.* silly or foolish
369. ni___l plate *n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
370. poetic me__r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
371. the solid con_____nt of blood cells *n.* one of the parts of the whole; a person represented by an elected official
372. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
373. complicated con_____on *n.* a machine or device that is made up of a combination of interconnected parts and often appears complicated or unusual

ANSWERS: 363. generation, 364. stable, 365. sediment, 366. deliberately, 367. volatile, 368. goofy, 369. nickel, 370. meter, 371. constituent, 372. atom, 373. contraption

374. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
375. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
376. m_r a proper relationship *v.* to damage or spoil the appearance or surface of something
377. a t__n-lens camera *n.* either of two children born at the same time from the same mother
378. 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
379. un___d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
380. ill_____te a key point *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
381. still on_____g *adj.* continuing to exist or develop, or currently happening
382. p__e a fire *v.* to push or prod with a sharp object or the finger
383. Ma_____n geography *adj.* of or relating to Mars or its imaginary inhabitants
384. the or__t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

ANSWERS: 374. galaxy, 375. construct, 376. mar, 377. twin, 378. belt, 379. unfold, 380. illustrate, 381. ongoing, 382. poke, 383. Martian, 384. orbit

385. details of his pr_____al *n.* a formal suggestion or offer, sometimes a written one
386. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
387. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
388. de____y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
389. a branch of as_____my *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
390. sc__w the cap *v.* to turn something, such as a bolt, with a driver or wrench to tighten or loosen it; (noun) a cylindrical rod with a helical ridge used to fasten things together
391. ca__e television *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
392. co_____t car *n.* an idea or principle associated with something abstract
393. interstellar int_____er *n.* a person who intrudes into a place or sphere of activity where they are not wanted or are considered not to belong

ANSWERS: 385. proposal, 386. cluster, 387. molecular, 388. deploy, 389. astronomy, 390. screw, 391. cable, 392. concept, 393. interloper

394. 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
395. medical li__o *n.* the special vocabulary or terminology used by a particular group or profession
396. c__e business activity *n.* the most essential or fundamental part of something
397. bio_____ures discovery *n.* distinctive chemical or physical features that indicate the presence of past or current life
398. al__n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
399. recent su___y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
400. development of the ne____s system *adj.* worried and anxious about something; relating to the nerves
401. en_____e area *v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include
402. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
403. bio_____ures detection *n.* distinctive chemical or physical features that indicate the presence of past or current life

ANSWERS: 394. spot, 395. lingo, 396. core, 397. biosignature, 398. alien, 399. survey, 400. nervous, 401. enclose, 402. mathematics, 403. biosignature

404. co___c background radiation *adj.* relating to the universe or cosmos; vast or limitless
405. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
406. ro__y terrain *adj.* full of or abounding in rocks; of, relating to, or made of rock
407. public re__m *n.* a domain of activity, interest, or knowledge
408. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
409. n_g political leaders *v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
410. phe_____al success *adj.* extremely good or impressive; outstanding
411. pre-Christian an_____t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
412. a t__n room *n.* either of two children born at the same time from the same mother
413. admission qu__a *n.* a limited amount or share of something assigned or allocated; a restriction on the number of people or goods that can enter or leave a country
414. st___c website *adj.* not moving or not capable of moving, not changing or not capable of changing
415. an in_____ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

ANSWERS: 404. cosmic, 405. amazing, 406. rocky, 407. realm, 408. telescope, 409. nag, 410. phenomenal, 411. ancient, 412. twin, 413. quota, 414. static, 415. infrared

416. heavy hy____en

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

ANSWERS: 416. hydrogen

Session 3: Fill in the Blanks

1. The baby _____ 1 pound 3 oz.
v. to have a particular weight; to carefully evaluate things before making a conclusion
2. Parallel lines are, by _____ lines on the same plane that never cross.
n. a concise explanation of the meaning of a word, phrase, or symbol
3. The coal _____ worked tirelessly to extract valuable minerals from deep underground.
n. a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
4. Tech companies often employ _____ ducts and other materials in their office interiors.
adj. having no protection or shield from something, such as bad weather, attack, or criticism
5. The beehive was made of an intricate _____ pattern.
n. a structure of hexagonal cells made of wax by bees as a place to store honey and to rear their young
6. The prime minister canceled visits to other countries to resolve _____ disputes.
adj. of or relating to the inside of something
7. The outermost electron shell of an _____ determines its chemical characteristics.
n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 1. weighs, 2. definition, 3. miner, 4. exposed, 5. honeycomb, 6. internal, 7. atom

8. Her passions are in the _____ of real-world political affairs.
n. a domain of activity, interest, or knowledge
9. Gandhi had an _____ zeal for nonviolence.
adj. perfect or complete or to the most considerable degree possible
10. The _____ moon Europa is believed to have an ocean beneath its icy surface.
adj. relating to Jupiter or its characteristics
11. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
12. _____ displaced part of the mechanism.
n. a continuous quick and slight shaking movement
13. Each country was given a _____ for the fish they were allowed to catch.
n. a limited amount or share of something assigned or allocated; a restriction on the number of people or goods that can enter or leave a country
14. 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
15. _____ longitude is measured in degrees east or west of the Prime Meridian.
adj. of or relating to the Earth; relating to or inhabiting the land or the ground as opposed to the sea or air

ANSWERS: 8. realm, 9. absolute, 10. Jovian, 11. engineer, 12. Vibration, 13. quota, 14. deflect, 15. Terrestrial

16. The instrument has a high _____ to temperature changes.
- n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
17. The mystery _____ as the detectives gathered more clues.
- v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
18. The _____ approach to solving the problem involved experts from multiple fields working together.
- adj.* involving or combining several academic disciplines or fields of study
19. 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
20. The galactic _____ was a beautiful sight through the telescope, with its vibrant colors and swirling clouds.
- n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source
21. The _____ in my pocket jingled as I walked.
- n.* a silver-white metallic element with the symbol Ni, used in many alloys and as a coin; a United States coin worth one-twentieth of a dollar
22. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
23. The _____ road made it difficult to drive on.
- adj.* full of or abounding in rocks; of, relating to, or made of rock

ANSWERS: 16. sensitivity, 17. unfolded, 18. interdisciplinary, 19. instrument, 20. nebula, 21. nickel, 22. advance, 23. rocky

24. Relations between the two countries have been relatively _____ due to the summit meeting.

adj. firm and steady; not easily moved, disturbed, or changed

25. The report divided the data into _____ based on age, gender, and income level.

n. a part or section of something; a distinct group within a larger whole

26. The _____ motion of the planet was unusual and required further investigation.

adj. moving or occurring in a direction opposite to the usual or normal one or going back to an earlier or worse condition

27. We can hear an _____ piano melody from his room.

adj. extremely beautiful and delicate

28. The company is undergoing an _____ opening new locations in several states.

n. the process of becoming larger or more extensive, or the result of this process

29. The _____ camera revealed a hidden image on the surface.

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

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

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

31. The computer's hard _____ was full, so she had to delete some files.

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

ANSWERS: 24. stable, 25. segments, 26. retrograde, 27. exquisite, 28. expansion, 29. infrared, 30. Molecular, 31. disk

32. The _____ data showed that the element was composed of multiple spectral lines.
- n.* an instrument that separates light into its component wavelengths and records the distribution of intensities as a graph, used for chemical analysis or to determine the properties of stars and galaxies
33. They _____ customers with a premium for loyal patronage.
- v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
34. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
35. The _____ new car drew everyone's attention as it drove by.
- adj.* reflecting light and having a bright and smooth surface
36. She couldn't stop _____ her husband to take out the trash.
- v.* to annoy or irritate someone persistently with repeated complaints, requests, or criticism; (noun) an old or over-worked horse
37. The chef expertly _____ the sauce onto the plate.
- v.* to move in a circular or spiral pattern
38. The golfer recorded an _____ distance.
- adj.* extremely surprising, especially in a way that you like or admire
39. They hope to _____ their business worldwide.
- v.* to increase or to make something greater in size, number, or importance

ANSWERS: 32. spectrograph, 33. encouraged, 34. chemical, 35. shiny, 36. nagging, 37. swirled, 38. amazing, 39. expand

40. She had to _____ the door to escape the room.
n. to remove a bolt or lock from a door or window
41. Pardon me for leaving some of your questions _____.
adj. not responded to or explained
42. This facility has the largest astronomical _____ in the country.
n. a device like a tube in shape containing lenses used to magnify and observe distant objects
43. This system uses submarine _____ to exchange information between continents.
n. a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
44. We had a _____ time yesterday.
adj. very great in degree or extent or amount or impact; extremely good
45. The _____ image on the screen took a lot of work to make out.
adj. not moving or not capable of moving, not changing or not capable of changing
46. This device displayed the speech _____ spectrographically.
n. an ordered array of colors into which a light beam can be split
47. The organization worked to bring together _____ groups in the community.
adj. very different or distinct from something else and is not connected or comparable in any way
48. He has a flair for _____.
n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 40. unbolt, 41. unanswered, 42. telescope, 43. cables, 44. tremendous, 45. static, 46. spectrum, 47. disparate, 48. mathematics

49. The _____ jets gradually dominate the world's airlines.

adj. enormous; much bigger or more important than similar items usually are

50. The animal was _____ in a small cage.

v. to restrict the movement of someone or something

51. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.

n. a person, company, etc. to whom a debtor owes money

52. 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

53. Heavy rain often washes away _____ of the river.

n. the substance that forms a solid layer at the bottom of the liquid

54. The hunter's approach _____ the geese.

v. to cause to separate and go in different directions

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

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

56. 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

57. 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

ANSWERS: 49. giant, 50. confined, 51. creditor, 52. spot, 53. sediments, 54. scattered, 55. revolution, 56. interiors, 57. complexity

58. 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
59. The rocket's casing was made of _____ for its light weight and strength.
n. a light, strong, brittle metallic element with the symbol Be and atomic number 4, used in nuclear reactors, aerospace, and other high-tech applications
60. It was a mere _____ that they both ended up at the same restaurant.
n. an occurrence that happens by chance; a fortuitous event, or a coincidence
61. There is very little water in the _____ atmosphere.
adj. of or relating to Mars or its imaginary inhabitants
62. Each _____ member of the council has the right to vote on important decisions.
n. one of the parts of the whole; a person represented by an elected official
63. He had a deep passion for extragalactic _____ and spent hours observing the night sky.
n. the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
64. He fastens some sheets of paper with a _____.
n. a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
65. 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

ANSWERS: 58. sweep, 59. beryllium, 60. happenstance, 61. Martian, 62. constituent, 63. astronomy, 64. clip, 65. gravity

66. The Milky Way _____ has numerous water-bearing planets.

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

67. We made a _____ to the client.

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

68. The _____ balloons floated into the sky.

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

69. The _____ at the party was not on the guest list and was asked to leave.

n. a person who intrudes into a place or sphere of activity where they are not wanted or are considered not to belong

70. He suffers from _____ breakdowns.

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

71. We do move forward with those tasks in _____ next week.

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

72. The enemy fell right into the _____.

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

73. Prospects for the suspect's conviction are _____ due to a lack of helpful evidence.

adj. dark and gloomy or difficult to see through

ANSWERS: 66. galaxy, 67. recommendation, 68. helium-filled, 69. interloper, 70. nervous, 71. sequence, 72. trap, 73. murky

74. They have been living near water since _____ times.

adj. relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

75. The _____ on the drawer was loose and needed to be tightened.

n. a round handle, especially one used for opening or closing a door, drawer, or cabinet

76. The president asked for a more _____ plan.

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

77. 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.

78. The pitcher threw a sharp _____ that the batter was not expecting.

n. a pitch in baseball that breaks unexpectedly; a surprising or unexpected twist or turn in a situation

79. 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

80. He was reluctant to leave his comfort _____ and try something new.

n. a specific area, region, or section that is marked off or defined in some way

81. _____ rays are high-energy particles that originate from outside the solar system.

adj. relating to the universe or cosmos; vast or limitless

ANSWERS: 74. ancient, 75. knob, 76. concrete, 77. orbit, 78. curveball, 79. planet, 80. zone, 81. Cosmic

82. He _____ hypotheses that no mathematician has ever imagined before.
- v. to build or create something; to assemble or combine different parts to form something whole
83. This country _____ its weapons in the east region.
- v. to move troops or weapons into a position or military action; to bring into something in an effective way
84. His writing was well-structured and _____.
- adj. logical and consistent; (noun) the quality of being clear and easy to understand
85. The company's financial records _____ how successful it has been.
- v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation
86. In the hospital, she will remain under constant _____.
- n. the act or activity of carefully examining or monitoring something or someone
87. The sponge _____ water well.
- v. to take in a fluid or other substance gradually
88. He is tall and _____ strong.
- adv. in the same way
89. The organizational _____ of start-ups is often flat and straightforward.
- n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
90. The discovery of the _____ soup was a crucial step in understanding the origins of life on Earth.
- adj. existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe

ANSWERS: 82. constructs, 83. deployed, 84. coherent, 85. illustrate, 86. observation, 87. absorbs, 88. likewise, 89. structure, 90. primordial

91. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
92. The mountainous _____ was rough and rocky.
n. the physical features of a piece of land, including hills, valleys, rivers, and forests
93. There was no _____ between their proposals.
v. to partially cover something by going beyond its edge
94. A happy group of friends occupies the _____ of the picture.
n. the part of a view, picture, etc., that is nearest to the viewer
95. The presidential _____ is the most luxurious room in the hotel.
n. a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person
96. The scratches on the car _____ its otherwise perfect appearance.
v. to damage or spoil the appearance or surface of something
97. Your _____ reflects your thoughts.
n. an informal talk between two or more people to exchange their views, ideas, information, etc.
98. Many employers hire _____ trainees to train as managers.
n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

ANSWERS: 91. concept, 92. terrain, 93. overlap, 94. foreground, 95. suite, 96. marred, 97. conversation, 98. graduate

99. She had a master's degree in _____.

n. the scientific study of mind and behavior

100. The _____ force of the earth keeps our planet spinning.

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

101. Parents often _____ their characteristics to their children.

v. to send or forward an electronic signal; to pass something from one person or thing to another

102. The animal rights group worked to _____ the dolphins back into the wild.

v. to set free or allow to escape from confinement

103. Overall _____ are approximately 400x200mm.

n. a measurable extent of a particular kind, such as width, height, or length

104. I have no idea what sort of folks _____ the neighborhood.

v. to live in a specific location; to reside

105. 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

106. _____ the bandage tightly around the injured arm.

v. to cover or enclose something entirely with paper, cloth, or other material

107. A _____ seagull ruined the group photo.

n. the act of unexpectedly appearing in someone else's photo as a joke or ruining the shot

ANSWERS: 99. psychology, 100. magnetic, 101. transmit, 102. release, 103. dimensions, 104. inhabit, 105. launch, 106. Wrap, 107. photobombing

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

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

109. His _____ showed highly positive results.

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

110. The walls were _____ to create a private outdoor space.

- v.* to surround, as with a fence, wall, or barrier; to put within boundaries; to include

111. The investigation _____ several government agencies and is expected to take several months.

- v.* to include or affect someone or something as a necessary part of something else

112. You _____ a bill in the change machine, and the coins pop out.

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

113. Educating hundreds of thousands of recruits is a _____ task.

- adj.* extremely surprising or overwhelming and, therefore, difficult to understand or imagine

114. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.

- v.* to force, take, or pull apart; mark as different

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

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

ANSWERS: 108. capture, 109. experiments, 110. enclosed, 111. involves, 112. stick, 113. mind-boggling, 114. separate, 115. vision

116. He grows vegetables in his _____.

n. a whole space behind and belonging to a house

117. Ordinary air purifiers cannot adequately remove pollen _____.

n. wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

118. This train departed later than _____ scheduled.

adv. at the beginning; at first

119. He should _____ more with his colleagues.

v. to communicate or react with somebody

120. He had to _____ the loose knob back onto the cabinet door.

v. to turn something, such as a bolt, with a driver or wrench to tighten or loosen it;
(noun) a cylindrical rod with a helical ridge used to fasten things together

121. The _____ is about 13.8 billion years old.

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

122. He made a _____ face as he recalled this morning's events.

adj. silly or foolish

123. She heard a _____ nearly invisible scream.

adj. not strong, clear, or vigorous; slight or weak

124. The rain and thunder are _____ today.

adj. stupid or not sensible; very angry

ANSWERS: 116. backyard, 117. grains, 118. initially, 119. interact, 120. screw, 121. universe, 122. goofy, 123. faint, 124. crazy

125. Greed is the primary _____ in the making of criminals.

n. one of the things used to make something, especially one of the foods used to make a particular dish

126. The astronaut trained for years before embarking on her _____ to the International Space Station.

n. a long journey, especially by sea or in space

127. She falls over _____ when she sees her mother-in-law.

adv. at, to, or toward the direction or place that is behind or rear

128. Every human is responsible for taking care of the Earth's _____.

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

129. The new prime minister has vowed to take measures against the _____ economic crisis.

adj. continuing to exist or develop, or currently happening

130. The penny fell _____ the piano.

adv. under or below something else

131. The younger _____ has different values and beliefs than the older one.

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

132. The gymnast was able to _____ his muscles to perform the difficult routine.

v. to show off one's strength, power, or possessions; to bend or be capable of bending easily

ANSWERS: 125. ingredient, 126. voyage, 127. backward, 128. environment, 129. ongoing, 130. underneath, 131. generation, 132. flex

133. This ad campaign is aimed _____ at young women.

adv. only associated with or meant for one thing

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

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

135. The _____ of water is called ice.

adj. hard or firm; characterized by good substantial quality

136. The car's motion made her _____ and she had to pull over.

adj. feeling nauseous or dizzy as a result of being in a moving vehicle

137. The _____ train was packed with commuters during rush hour.

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

138. The _____ scan showed a clear image of the patient's internal organs.

n. a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound

139. The _____ on Mars is gathering data on the planet's surface and sending it back to Earth.

n. a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon

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

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

141. Lead is an effective _____ against X-rays, gamma rays, and other harmful radiation.

n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

ANSWERS: 133. specifically, 134. temperatures, 135. solid-state, 136. carsick, 137. tube, 138. tomography, 139. rover, 140. twin, 141. shield

142. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
143. Scientists are searching for _____ on other planets that could indicate the presence of life.
- n.* distinctive chemical or physical features that indicate the presence of past or current life
144. These gas nebulas are merely newborn galactic _____.
- n.* the most essential or fundamental part of something
145. The _____ of musicians played a beautiful symphony together.
- n.* a group or set of five people or things or a musical composition for five performers
146. The discovery of liquid water on Mars has opened up new avenues for _____ research.
- n.* the study of the origin, evolution, distribution, and future of life in the universe, including the search for extraterrestrial life
147. Our skeleton outline of the _____ met with much opposition.
- n.* a formal suggestion or offer, sometimes a written one
148. The mentor provided _____ to the young entrepreneur, helping her navigate the business world.
- n.* advice or instructions given to help direct someone's behavior or decision-making
149. The language used in the article was technical _____ making it difficult for non-experts to understand.
- n.* the special vocabulary or terminology used by a particular group or profession

ANSWERS: 142. molecule, 143. biosignatures, 144. cores, 145. quintet, 146. astrobiology, 147. proposal, 148. guidance, 149. lingo,

150. The small cabin in the woods was his _____ for many years.

n. a place where one lives; a dwelling; a house, or other shelters

151. The _____ frequency of the guitar string was measured with a tuner.

adj. tending to reinforce or prolong sound by sympathetic vibration; having a quality that elicits a similar response or feeling

152. He is familiar with _____ and biology.

n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions

153. She opened her _____ to protect herself from the rain.

n. a device consisting of a circular canopy of cloth on a central pole used as protection against rain or sometimes against the sun

154. Among young people, _____ pressure can be pretty influential.

n. a person who has the same age, status, or ability

155. They _____ fun at each other's jokes, laughing and teasing.

v. to push or prod with a sharp object or the finger

156. 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

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

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

ANSWERS: 150. abode, 151. resonant, 152. chemistry, 153. umbrella, 154. peer, 155. poked, 156. belting, 157. sensor

158. I found a stink ____ crawling across the ceiling.

n. any tiny insect; a fault or defect in a computer program, system, or machine

159. He _____ a fire in the fireplace to warm the room.

v. to start a fire; to light

160. Their relationship was _____ and prone to sudden outbursts of anger.

adj. likely to change rapidly or unexpectedly, or being unstable or explosive

161. Supercomputers enable scientists to create computational models of the _____.

n. another name for the universe, mainly used when it is thought of as an ordered system

162. Battles between whites and blacks _____ immediately.

v. (of a volcano) to become active and eject rocks, smoke, etc.; to start abruptly and violently

163. His hometown was where he first acquired the _____ of wood carving.

n. an activity that requires a particular skill in making things with one's hands

164. The _____ motion of the tide was gradually slowing down.

adj. directed or facing towards the inside; inside or inward-looking

165. It is terrific to camp in _____ nature.

adj. new and completely free from dirt or contamination

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

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

ANSWERS: 158. bug, 159. kindled, 160. volatile, 161. cosmos, 162. erupted, 163. craft, 164. inward, 165. pristine, 166. doe

167. He was studying _____ in an attempt to understand the origins of the universe.
- n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
168. 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
169. She was mesmerized by the _____ colors.
- n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain
170. The statement had a _____ impact on house prices.
- adj.* very sudden, very excellent, or full of action and excitement
171. Some kinds of machine learning models show an _____ to how people learn.
- n.* a comparison between similar things that have similar aspects, often used to help explain a principle or concept
172. Could you help me _____ some furniture?
- n.* a slight transition in position, direction, or trend
173. The island was formed by a _____ millions of years ago.
- n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

ANSWERS: 167. astrophysics, 168. spacecraft, 169. rainbow's, 170. dramatic, 171. analogy, 172. shift, 173. volcano

174. This company _____ its battery problem completely.

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

175. A _____ of grapes hung from the vine.

n. a group of similar things or people close together, often forming a distinct mass or unit

176. He narrated the _____ story of his adventure.

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

177. The North _____ is the northernmost point on Earth.

n. one of two antipodal points where the Earth's axis of rotation intersects the Earth's surface; a long, slender, rounded rod, typically of wood or metal, used as a support or to hang something

178. He has the _____ to keep talking about this topic.

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

179. The _____ analysis revealed unexpected details about the composition of the planet's atmosphere.

adj. relating to or having the properties of a spectrum (= an ordered array of colors into which a light beam can be split); relating to a ghost or apparition

180. 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)

181. Five miles is _____ similar to eight kilometers.

adv. approximately but not precisely; with a violent manner

ANSWERS: 174. resolves, 175. cluster, 176. extraordinary, 177. Pole, 178. wit, 179. spectral, 180. gravitational, 181. roughly

182. 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
183. The _____ on the wall showed that the room was three meters long.
- n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
184. The election was a _____ success for the Whigs.
- adj.* worthy of attention because unusual or special
185. The athlete's _____ performance broke all previous records.
- adj.* extremely good or impressive; outstanding
186. The _____ and the oxygen react and then form water.
- n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
187. The sponge takes up the _____ well.
- n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
188. 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
189. His professional experience includes all _____ of media production.
- n.* one part or feature of a situation, problem, subject, etc.

ANSWERS: 182. atmosphere, 183. meter, 184. remarkable, 185. phenomenal, 186. hydrogen, 187. liquid, 188. flyby, 189. aspects

190. The police used a _____ scanner to identify the suspect.
n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
191. The music was _____ of a bygone era.
adj. tending to evoke or bring something to mind
192. This question has fascinated solar _____ for decades.
n. a physicist who studies astronomy
193. 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
194. Please _____ up a bucketful of water from the well.
v. to put something into a liquid for a short time and take it out again
195. The _____ effects of the psychedelic drug were unlike anything he had ever experienced.
adj. extremely impressive in a way that affects someone's mind or emotions
196. 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
197. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
198. The inventor created a _____ that could turn salt water into drinking water.
n. a machine or device that is made up of a combination of interconnected parts and often appears complicated or unusual

ANSWERS: 190. fingerprint, 191. evocative, 192. astronomers, 193. crew, 194. dip, 195. mind-blowing, 196. discovery, 197. incredibly, 198. contraption

199. He _____ misleads others.

adv. done in an intentional or slow and careful manner

200. 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

201. _____ species have drastically altered the ecosystem in this area.

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

202. 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

203. That _____ shows that people are accepting the tax increase to some extent.

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

204. The revitalization of technology companies is _____ to the country's growth.

adj. extremely vital or necessary

205. Scientists believe a _____ may have erupted on one of Saturn's moons.

n. a type of volcano that erupts volatile substances such as gases or cryo-lavas (cold, volatile-rich mixtures) instead of molten rock (magma)

206. The sunset was so beautiful it looked like a _____ scene from a movie.

adj. of or relating to poetry (= a piece of writing that emphasizes the expression of feelings and ideas); using language in an imaginative and expressive way

ANSWERS: 199. deliberately, 200. rocket, 201. Alien, 202. probe, 203. survey, 204. crucial, 205. cryovolcano, 206. poetic

207. White color is made up of many different _____ of light.

n. the distance between two points in the same phase in consecutive cycles of a wave

208. The archaeologist ran his _____ along the pattern of the tombstones.

n. the end or tip of a finger

ANSWERS: 207. wavelengths, 208. fingertips