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Vocabulary Builder Reference from...

Janna Levin: The sound the universe makes | TED Talk

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

All Words

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Session 1: Word List

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.

bare

adj. not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something

synonym : naked, exposed, uncovered

(1) **bare** minimum, (2) **bare** essentials

She wore a simple dress with a **bare** neckline

peripheral

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

synonym : outer, minor, secondary

(1) **peripheral** vision, (2) **peripheral** devices

The city's **peripheral** areas should be given more attention regarding infrastructure and resources.

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**.

rudimentary

adj. relating to basic facts or principles; fundamental

synonym : essential, fundamental, elementary

(1) a **rudimentary** plant, (2) **rudimentary** understanding

He has only a **rudimentary** knowledge of this topic.

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.

celestial

adj. relating to the sky or the heavens; of or like the sky or the heavens

synonym : heavenly, divine, ethereal

(1) **celestial** bliss, (2) **celestial** navigation

The **celestial** bodies in the night sky were beautiful to behold.

vast

adj. enormous in size, number, amount, or quantity

synonym : expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

era

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

synonym : epoch, age, period

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

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

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.

modern

adj. of or belonging to the present time or recent times

synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre-**modern** agricultural society

Their headquarters are in a **modern** skyscraper.

stunning

adj. causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence

synonym: beautiful, breathtaking, magnificent

(1) **stunning** beauty, (2) **stunning** disclosure

The **stunning** sunset took everyone's breath away.

silent

adj. without any or little sound

synonym: quiet, hushed, mute

(1) **silent** reading, (2) give **silent** consent

The politician remained **silent** despite intense media scrutiny.

snapshot

n. an informal photograph, especially one taken quickly

synonym: photo, picture, print

(1) take a **snapshot**, (2) developed **snapshot**

There were framed **snapshots** of family and friends in her room.

bang

v. to hit or cause to hit something in a way that makes a loud noise

synonym: crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down

My father tried to **bang** mathematics into my head since childhood.

convince

v. to persuade someone or make someone believe that something is true

synonym: persuade, win over, convert

(1) **convince** her to go with us, (2) **convince** an opponent

I am considering what I should do to **convince** him.

soundtrack

n. the recorded audio that accompanies a movie, television program, or video game

synonym : score, background music, accompaniment

(1) **soundtrack** album, (2) a motion picture with a **soundtrack**

The **soundtrack** to the movie was composed by a famous musician.

wobble

v. to move or shake unsteadily from side to side or up and down

synonym : sway, rock, totter

(1) **wobble** a few steps, (2) **wobble** chair

The table **wobbled** a little when I put my drink on it.

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.

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.

glorious

adj. having or deserving great admiration, praise, and honor; having great beauty and splendor

synonym : exquisite, magnificent, majestic

(1) a **glorious** victory, (2) photo in **glorious** color

I choose a **glorious** death rather than a shameful life.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

composition

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

synonym : creating, formatting, arrangement

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

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

sonic

adj. connected with the nature of sound, sound waves, or the speed

synonym : audio, auditory

(1) at **sonic** speed, (2) **sonic** wave

That company has introduced a new aircraft that can minimize the generation of a **sonic** boom.

volume

n. the amount of space occupied by an object or substance; the magnitude of sound

synonym : capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

ambition

n. a strong wish to do or achieve something

synonym : purpose, aim, endeavor

(1) an **ambition** for political power, (2) boundless **ambition**

Greed and **ambition** composed his personality.

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.

spacetime

n. a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

(1) **spacetime** continuum, (2) quantum **spacetime**

The curvature of **spacetime** is affected by the presence of mass and energy.

mallet

n. a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba

synonym: hammer, stick, beater

(1) percussion **mallet**, (2) lucky **mallet**

The percussionist switched from sticks to **mallets** for a softer sound.

characteristic

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

synonym: feature, quality, attribute

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

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

prediction

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

synonym: forecast, anticipation, foretelling

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

These results muddied the **prediction**.

indirectly

adv. not going straight to the point; implying or suggesting something

synonym: circuitously, obliquely, by implication

(1) **indirectly** related, (2) **indirectly** impact

The CEO **indirectly** expressed her disappointment with the

project's progress.

wreak

v. to cause or bring about something, often as a result of harmful or destructive actions or events

synonym: cause, inflict, bring about

(1) **wreak** a lot of changes, (2) **wreak** further damage

The virus has **wreaked** havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.

havoc

n. widespread destruction or devastation, often caused by natural disasters, war, or other violent events

synonym: destruction, devastation, ruin

(1) cause **havoc**, (2) play **havoc** in the mind

The storm wreaked **havoc** on the town, causing widespread damage and power outages.

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**.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym: demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

churn

v. to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

synonym: stir, agitate, whirl

(1) **churn** out manufactured goods, (2) **churn** in my stomach

The cream needs to be **churned** for several minutes before it becomes butter.

debris

n. broken or torn fragments of something

synonym: remains, remnants, garbage

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

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

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

shadow

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

synonym: shade, silhouette, outline

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

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

cast

v. to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

synonym: throw, project, select

(1) **cast** a ballot, (2) **cast** a charming eye

This accident **cast** a dark shadow over their lives.

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**

The company's hiring criteria emphasize personality, not a

person's **background**.

owe

v. to be under a moral or legal obligation to pay or do something in return for something received;

synonym: have an obligation, incur

(1) **owe** \$100 to my friend, (2) **owe** him a grudge

She **owes** her friend a favor for helping her move.

grid

n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

synonym: gridiron, battery grid, power system

(1) a **grid** design, (2) a wire **grid**

Grid pattern roads often appear in urban areas.

straight

adj. extending or moving in one direction without bending or curving; having no deviations

synonym: linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

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.

mass

n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym: abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

curve

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

synonym : bend, arc, turn

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

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

relative

adj. considered and evaluated through comparison with something else

synonym : comparative, proximate, congeneric

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

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

orbit

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

synonym : path, course, trajectory

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

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

crush

v. to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller

synonym : destroy, demolish, pulverize

(1) **crush** coffee beans, (2) **crush** a revolt

The car was completely **crushed** in the accident.

dense

adj. containing a large number of people or something with little space between them

synonym : heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

veer

v. to change direction suddenly or sharply; to turn or swerve from one course or direction to another

synonym : swerve, diverge, shift

(1) **veer** toward danger, (2) **veer** to the left

The car **veered** off the road and crashed into a tree.

germ

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

synonym : bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment

The **germ** of his idea came from watching birds flying in flocks.

accomplished

adj. having completed a task or achieved a goal successfully; skilled or proficient at something

synonym : achieved, finished, completed

(1) **accomplished** at a very early age, (2) **accomplished** goal

She felt **accomplished** after finishing her book.

trench

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

synonym : aqueduct, ditch, channel

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

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

calculate

v. to judge or find out the amount or number of something by using mathematics

synonym : compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

ballistic

adj. relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control

synonym : furious, explosive, enraged

(1) **ballistic** missile, (2) **ballistic** vest

The boss went **ballistic** when he found out we missed the deadline.

trajectory

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

synonym: course, curve, orbit

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

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

cannon

n. a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

synonym: artillery, gun, ordnance

(1) **cannon** salute, (2) **cannon** ball

The heavy **cannon** fired a loud shot that echoed across the battlefield.

equation

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

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

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

thrill

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

synonym: exhilaration, delight, rush

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

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

surmise

v. to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known

synonym: guess, conjecture, speculate

(1) **surmise** the truth, (2) **surmise** the situation

I can only **surmise** what happened while I was away.

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**.

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.

waterfall

n. a point in a river or stream where water falls from a high place, for example, over a cliff or rock

synonym: cascade, falls, rapids

(1) scenic **waterfall**, (2) a **waterfall** with a fall of ten feet

Years of river erosion have formed the uniquely shaped **waterfall** basin.

drag

v. to pull or haul with force

synonym: haul, pull, draw

(1) **drag** a chair over, (2) **drag** a team down

He **dragged** the heavy suitcase behind him as he walked.

gunfire

n. the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time

synonym: gunshots, firing, shooting

(1) lethal **gunfire**, (2) burst of **gunfire**

The journalist heard the sound of **gunfire** while reporting in a war zone.

impressive

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

synonym: impactful, remarkable, exceptional

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

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

dedication

n. a lot of time and energy that someone puts in for an activity or purpose because they believe it is important
synonym: devotion, faithfulness, loyalty

(1) **dedication** to public service, (2) **dedication** ceremony

We are very impressed with your strong **dedication** to quality.

hardworking

adj. tending to work with a lot of effort and care
synonym: diligent, dedicated, conscientious

(1) **hardworking** student, (2) retire from **hardworking** life

They sought candidates with **hardworking** and good-natured.

harsh

adj. severe and unkind; extremely tough and unpleasant to inhabit

synonym: brutal, severe, backbreaking

(1) **harsh** climate, (2) use of **harsh** chemicals

The prime minister faced **harsh** criticism.

academy

n. a school for special training; a type of official organization that aims to encourage and develop standards in its particular field

synonym: school, institute, college

(1) an **academy** of music, (2) a member of the **Academy**

Her new documentary earned her an **Academy** Award.

oddity

n. something unusual or different

synonym: rarity, curiosity, peculiarity

(1) find an **oddity**, (2) genetic **oddity**

The two-headed snake was an **oddity** at the zoo.

formation

n. the way something is created naturally or the way it has been arranged

synonym: establishment, organization, creation

(1) a rock **formation**, (2) **formation** flight

Character **formation** is one of the goals of education.

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.

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

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

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

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

catastrophic

adj. extremely harmful; causing physical or financial destruction

synonym: fatal, disastrous, destructive

(1) victim of **catastrophic** injuries, (2) **catastrophic** climate change

The extinction rate of aquatic animals was **catastrophic**.

lifetime

n. the duration of someone's life or something's existence;

synonym: lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

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.

fond

adj. having affection or liking for someone, particularly someone you've known for a long time

synonym: liking, enjoying, affectionate

(1) very **fond** of, (2) **fond** memories of the birthday

He is excessively **fond** of alcohol.

illuminate

v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

synonym: brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding

That biologist **illuminated** the mechanism of heredity.

spill

v. to cause or allow liquid to run or flow over the edge of its container by accident

synonym: slop, drop, scatter

(1) **spill** a bit of wine, (2) **spill** my heart

He was determined to **spill** everything.

myth

n. an ancient story or set of stories accepted as history, especially explaining the worldview of a people

synonym: fable, legend, lore

(1) the **myth** of an old religion, (2) perpetuate a **myth**

With the financial bubble bursting, the **myth** of economic growth in investment banking collapsed.

devour

v. to eat or consume something eagerly or ravenously; or to destroy something rapidly

synonym: consume, swallow, destroy

(1) **devour** a meal, (2) **devour** my way
She **devoured** the mystery novel in one sitting.

vantage

n. a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

synonym: advantage, benefit, edge

(1) strategic **vantage**, (2) gain a **vantage**

From our **vantage** point, we could see the whole city skyline.

lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym: glass

(1) a convex **lens**, (2) a **lens** with a wide angle

The photographer took this photo using a telephoto **lens**.

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.

eclipse

n. an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something

synonym: overshadow, blackout, decadence

(1) partial **eclipse**, (2) **eclipse** a competitor

People across the country gathered to watch the solar **eclipse** in wonder and amazement.

luminous

adj. emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

synonym:

radiant, glowing, brilliant

(1) **luminous** glow, (2) **luminous** stars

The room was filled with **luminous** decorations that shone in the dark.

lane

n. a narrow road in the countryside; a well-defined track or path for someone such as a swimmer or driver

synonym: roadway, street, artery

(1) **lane** change, (2) first **lane**

We walked along a muddy **lane** to reach the farm.

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.

relativism

n. the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined

synonym: subjectivism, skepticism

(1) linguistic **relativism**, (2) cultural **relativism**

Moral **relativism** suggests that there is no objective right or wrong.

dilate

v. to make something wider, larger, or more open

synonym: widen, open, enlarge

(1) **dilate** the bronchial tubes, (2) **dilate** blood vessel

The pupils of the eyes **dilate** in low light.

galactic

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

synonym: cosmic, celestial, enormous

(1) **galactic** scale, (2) a **galactic** system

The Milky Way is a **galactic** collection of billions of stars and planets.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

near-death

adj. relating to a state in which a person is close to dying or has had a close brush with death

(1) **near-death** encounter, (2) **near-death** condition

Surviving a **near-death** experience can change your outlook on life.

tunnel

n. an underground or underwater passage, typically for trains or cars

synonym: passageway, underground passage

(1) **tunnel** construction work, (2) **tunnel** disease

The workers had to dig through solid rock to create the vehicular **tunnel** allowing the cars to pass through the mountain.

realistic

adj. having or showing a sensible and practical idea that is possible to achieve

synonym: practical, pragmatic, down-to-earth

(1) a **realistic** goal, (2) a **realistic** goal

That story was so **realistic**, and it was scary.

spinning

n. the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

synonym: whirling, rotating, spinning wheel

(1) **spinning** machine, (2) **spinning** wheel

She took a **spinning** class at the gym to improve her cardiovascular fitness.

crossing

n. the act of going from one side to the other; a place where roads, railway tracks, or rivers intersect

synonym: intersection, junction

(1) **crossing** bridge, (2) a **crossing-keeper**

The busy road was closed for a few hours for a railway **crossing**.

fraction

n. a small part or item forming a piece of a whole; the quotient of two rational numbers

synonym: piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a **fraction**

He spent only a **fraction** of his earnings.

squeeze

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

synonym: compress, crush, clamp

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

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

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of kilometers.

emanate

v. to emit, send out something; to express a quality or feeling

synonym: radiate, exude, give off

(1) **emanate** light, (2) **emanate** happiness

The fragrance of flowers **emanated** from the garden.

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**.

simulate

v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

synonym : pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

crack

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

synonym : snap, burst, break

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

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

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.

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.

literally

adv. in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

synonym : actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

coalesce

v. to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

synonym: merge, combine, unite

(1) **coalesce** ideas, (2) **coalesce** with the other

The various departments of the company will **coalesce** into one cohesive unit.

standing

adj. existing or remaining upright; having a vertical position;
(noun) social, financial, or professional status or reputation

synonym: upright, vertical, (noun) position

(1) **standing** water, (2) his social **standing**

The **standing** concert was packed with fans.

resonate

v. to be filled with a deep echoing sound

synonym: echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

unhelpful

adj. not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal

synonym: useless, ineffective, detrimental

(1) **unhelpful** comments, (2) **unhelpful** for people

His **unhelpful** attitude made it difficult for the team to complete the project on time.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

glamorous

adj. highly attractive and exciting, and different from ordinary things or people

synonym : alluring, bewitching, enchanting

(1) **glamorous** movie stars, (2) cast **glamorous** eyes

The south coast is less **glamorous** yet has many clean and appealing hotels.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

thump

v. to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully

synonym : beat, thud, pound

(1) **thump** on the back, (2) **thump** a blistering shot

I heard someone **thump** on the door, and when I opened it, no one was there.

anticlimax

n. a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation

synonym : disappointment, letdown

(1) **anticlimax** moment, (2) **anticlimax** ending

The movie had an unexpected **anticlimax**, leaving the audience disappointed and confused.

ding

v. to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food

synonym : hit, smack, bump

(1) **ding** a bell, (2) **ding** a ling

I accidentally **dinged** my new car door in the parking lot.

trail

n. a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

synonym: footpath, track, course

(1) a warm **trail**, (2) follow the **trail**

The storm left a **trail** of destruction behind it.

moving

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

synonym: emotional, poignant, touching

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

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

merge

v. to combine or integrate things, or to cause this to happen

synonym: combine, join, coalesce

(1) **merge** into a new party, (2) **merge** those systems into a new one

This consulting firm decided to **merge** the two companies into one.

chirp

n. a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

synonym: tweet, chirrup, peep

(1) the **chirp** of a bird, (2) the **chirp** of a cricket

The sound of the **chirp** woke me up early in the morning.

distance

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

synonym: space, gap, span

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

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

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym : catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

deviate

v. to depart from an established course or plan; to change direction or take a different route or approach

synonym : stray, diverge, veer

(1) **deviate** from the norm, (2) **deviate** from the plan

It's important not to **deviate** from the established safety procedures.

nucleus

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

synonym : core, heart, middle

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

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

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.

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.

ambitious

adj. having a great desire to attain achievement, power, or wealth

synonym : enterprising, challenging, earnest

(1) achieve **ambitious** goals, (2) with an **ambitious** eye

Their company has been in business for a short time but has **ambitious** goals.

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.

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.

propose

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

synonym : suggest, offer, recommend

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

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

hop

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using

an aircraft, bus, etc.

synonym : jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another

The rabbit **hopped** over the fence.

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.

embrace

v. to accept something willingly and enthusiastically;
(noun) the act of clasping another person in the arms as in greeting or affection

synonym : grasp, hold tightly, accept

(1) **embrace** an opportunity, (2) a warm **embrace**

The woods **embrace** the house.

probable

adj. likely to happen or likely to be true

synonym : likely, possible, potential

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

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

harbor

n. an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

synonym : port, dock, pier

(1) a sheltered **harbor**, (2) **harbor** a resentment

The tsunami swamped every boat in the **harbor**.

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**.

collide

v. to hit something violently when moving

synonym: clash, slam, contradict

(1) **collide** head-on, (2) **collide** in midair

The interests of the two countries **collide**.

perception

n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

synonym: understanding, idea, awareness

(1) keen **perception**, (2) **perception** of a stimulus

He is a man admired for the depth of his **perception**.

duration

n. the length of time something lasts or continues

synonym: period, span, course

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

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

disturbance

n. something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried

synonym: disorder, upset, annoyance

(1) a nervous **disturbance**, (2) a **disturbance** caused by a terrorist

This building construction causes serious **disturbance** to residents.

expression

n. the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood

synonym: statement, utterance, remark

(1) artistic **expression**, (2) **expression** of interest

His facial **expression** showed a mix of surprise and confusion.

deride

v. to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely

synonym : mock, ridicule, scorn

(1) **deride** the loser, (2) **deride** his opinion

She knew he would **deride** her for her unconventional beliefs, but she shared them anyway.

technique

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

synonym : approach, procedure, strategy

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

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

accurate

adj. correct and exact in all details

synonym : exact, precise, proper

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

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

animation

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

synonym : motion, movement, liveliness

(1) **animation** studio, (2) **animation** film

The **animation** of the characters in the movie was so realistic, and it was as if they were there.

proton

n. a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

(1) **proton** decay, (2) **proton** conductivity

The solar wind is composed almost entirely of electrons and **protons**.

studio

n. a room or building where creative or artistic work is produced; a television or radio production company
synonym : workshop, atelier, room

(1) a photo **studio**, (2) music **studio**

She works at a recording **studio** in Los Angeles.

chaotic

adj. without any order or organization; extremely disorganized, unpredictable, and confusing
synonym : disorderly, cluttered, topsy-turvy

(1) the **chaotic** economic situation, (2) **chaotic** theory

Change is also occurring in Turkey as a result of **chaotic** reform.

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.

habitable

adj. able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being
synonym : inhabitable, livable, viable

(1) **habitable** planet, (2) **habitable** space

The astronauts discovered a potentially **habitable** planet in the neighboring galaxy.

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.

frantic

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

synonym : wild, frenzied, manic

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

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

calculation

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

synonym: analysis, computation, estimate

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

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

writ

n. a written legal order or command

synonym: legal document, order, legal process

(1) a **writ** of summons, (2) issue a **writ**

He was served with a **writ** of eviction, giving him the notice to vacate the property.

cave

n. a large hole in the side of a hill, cliff, mountain, or under the ground

synonym: cavern, grotto, burrow

(1) domiciliary **caves**, (2) the mouth of the **cave**

Bats reside in sheltered **caves**.

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.

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.

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.

presumably

adv. believed to be true or likely based on the available evidence, or supposed to be the case without definite proof

synonym: likely, seemingly, supposedly

(1) **presumably** accurate, (2) **presumably** refuse the offer

The witness's testimony was **presumably** based on what he had seen and heard.

wipe

v. to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid

synonym: clean, brush, swab

(1) **Wipe** off dirt, (2) **wipe** with water

Please **wipe** your sweat with this towel.

process

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

synonym: procedure, method, system

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

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

echo

n. a sound heard after being reflected off a surface, such as a wall or a cliff

synonym: reverberate, repeat, reflection

(1) the **echo** of a person's footsteps, (2) sound **echo**

A thunderous boom **echoed** throughout the valley.

observable

adj. that can be noticed or seen

synonym : visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable**

Any theorem relies on both **observable** fact and assumption.

render

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

synonym : deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void

The jury must **render** a decision on this complex case.

elusive

adj. difficult to find, define, achieve, or remember

synonym : mysterious, ambiguous, inapproachable

(1) an **elusive** criminal, (2) track down an **elusive** fact

The physicist who found the **elusive** particle won the Nobel Prize.

quest

n. a long or challenging search for something

synonym : exploration, inquisition, pursuit

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

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

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.

cacophonous

adj. producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise

synonym : discordant, noisy, raucous

(1) **cacophonous** noise, (2) **cacophonous** city streets

The **cacophonous** chorus of the morning market created an overwhelming yet lively ambiance.

spirit

n. the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people

synonym: soul, attitude, enthusiasm

(1) **spirit** and the letter of the law, (2) an indomitable **spirit**

Despite their tragic loss, the family is showing great **spirit**.

reignite

v. to cause something to start burning again

synonym: rekindle, revive, renew

(1) **reignite** my interest, (2) **reignite** the spark

His speech **reignited** the passion of the crowd.

evade

v. to escape from or avoid meeting someone or something

synonym: dodge, avoid, bypass

(1) **evade** capture, (2) **evade** an issue

The jailbroken criminal is continuously attempting to **evade** the cops.

plume

n. a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat

synonym: feather, honor, token

(1) **plume** of smoke, (2) **plume** of feathers

The bird had a beautiful **plume** on its head.

branch

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

synonym: limb, twig, bough

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

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

multiverse

n. a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

(1) the **multiverse** hypothesis, (2) the concept of the **multiverse**

The various universes within the **multiverse** are sometimes called parallel universes.

sentient

adj. having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness

synonym: conscious, aware, perceptive

(1) **sentient** beings, (2) **sentient** robots

Animals such as dolphins and elephants are highly **sentient** and intelligent creatures.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

patch

n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose

synonym: mend, repair, fix

(1) **patch** of grass, (2) software **patch**

I need to sew a **patch** onto my jeans that ripped.

creature

n. a living being, especially an animal

synonym: being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

origin

n. the first existence or beginning of something

synonym: root, source, ancestor

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

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

Session 2: Spelling

1. very f__d of *adj.* having affection or liking for someone, particularly someone you've known for a long time
2. ca___n salute *n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
3. my friend's cha_____tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
4. career tra_____ry *n.* the curved path followed by an object moving through space
5. a numerator in a fr_____on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
6. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
7. c__t a charming eye *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
8. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
9. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future

ANSWERS: 1. fond, 2. cannon, 3. characteristic, 4. trajectory, 5. fraction, 6. detect, 7. cast, 8. capture, 9. prediction

10. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
11. obs_____le change *adj.* that can be noticed or seen
12. b__g his fist on a desk *v.* to hit or cause to hit something in a way that makes a loud noise
13. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
14. the piano passages in the com_____on *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
15. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
16. c__e business activity *n.* the most essential or fundamental part of something
17. an indomitable sp____t *n.* the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people
18. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 10. germ, 11. observable, 12. bang, 13. technique, 14. composition, 15. crack, 16. core, 17. spirit, 18. galaxy

19. sp__l a bit of wine *v.* to cause or allow liquid to run or flow over the edge of its container by accident
20. cr__h coffee beans *v.* to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller
21. the qu__t for truth *n.* a long or challenging search for something
22. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
23. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
24. retire from har_____ng life *adj.* tending to work with a lot of effort and care
25. un_____ul comments *adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
26. ded_____on ceremony *n.* a lot of time and energy that someone puts in for an activity or purpose because they believe it is important
27. 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
28. ant_____ax ending *n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation

ANSWERS: 19. spill, 20. crush, 21. quest, 22. modern, 23. technique, 24. hardworking, 25. unhelpful, 26. dedication, 27. launch, 28. anticlimax

29. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
30. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
31. tu___l disease *n.* an underground or underwater passage, typically for trains or cars
32. v__t majority *adj.* enormous in size, number, amount, or quantity
33. a ga_____ic system *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
34. wr__k a lot of changes *v.* to cause or bring about something, often as a result of harmful or destructive actions or events
35. de__e forests *adj.* containing a large number of people or something with little space between them
36. me__e those systems into a new one *v.* to combine or integrate things, or to cause this to happen
37. sq_____e a lemon *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
38. deeply re_____te with the consumers *v.* to be filled with a deep echoing sound
39. st_____ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 29. impressive, 30. hop, 31. tunnel, 32. vast, 33. galactic, 34. wreak, 35. dense, 36. merge, 37. squeeze, 38. resonate, 39. straight

40. software pa__h *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
41. sound e__o *n.* a sound heard after being reflected off a surface, such as a wall or a cliff
42. cr__h a revolt *v.* to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller
43. incredible th___l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
44. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
45. re_____te my interest *v.* to cause something to start burning again
46. 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
47. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
48. or___n of information *n.* the first existence or beginning of something
49. pl__e of smoke *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat

ANSWERS: 40. patch, 41. echo, 42. crush, 43. thrill, 44. remarkable, 45. reignite, 46. launch, 47. experiment, 48. origin, 49. plume

50. per_____al vision *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
51. exp_____on of interest *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
52. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
53. 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
54. ba_____ic missile *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
55. dawn of a new e_a *n.* a period that is distinct from others, typically in history
56. high vo____e *n.* the amount of space occupied by an object or substance; the magnitude of sound
57. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
58. acc_____hed goal *adj.* having completed a task or achieved a goal successfully; skilled or proficient at something

ANSWERS: 50. peripheral, 51. expression, 52. distance, 53. rocket, 54. ballistic, 55. era, 56. volume, 57. telescope, 58. accomplished

59. deep-sea tr___h *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
60. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
61. ch_____c theory *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
62. the du_____on of insurance *n.* the length of time something lasts or continues
63. issue a w__t *n.* a written legal order or command
64. ch__n out manufactured goods *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover
65. st_____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
66. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
67. o_e \$100 to my friend *v.* to be under a moral or legal obligation to pay or do something in return for something received;

ANSWERS: 59. trench, 60. eventually, 61. chaotic, 62. duration, 63. writ, 64. churn, 65. stretch, 66. background, 67. owe

68. use of ha__h chemicals *adj.* severe and unkind; extremely tough and unpleasant to inhabit
69. fa__t memory *adj.* not strong, clear, or vigorous; slight or weak
70. ev__e capture *v.* to escape from or avoid meeting someone or something
71. har_____ng student *adj.* tending to work with a lot of effort and care
72. acc_____hed at a very early age *adj.* having completed a task or achieved a goal successfully; skilled or proficient at something
73. an am_____on for political power *n.* a strong wish to do or achieve something
74. developed sn_____ot *n.* an informal photograph, especially one taken quickly
75. mo___g experience *adj.* causing strong emotions or feelings, especially sadness or sympathy
76. exploration of co___s *n.* another name for the universe, mainly used when it is thought of as an ordered system
77. ant_____ax moment *n.* a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation
78. de___e his opinion *v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely

ANSWERS: 68. harsh, 69. faint, 70. evade, 71. hardworking, 72. accomplished, 73. ambition, 74. snapshot, 75. moving, 76. cosmos, 77. anticlimax, 78. deride

79. a l__s with a wide angle *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
80. sp__t and the letter of the law *n.* the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people
81. nea_____th encounter *adj.* relating to a state in which a person is close to dying or has had a close brush with death
82. ha__h climate *adj.* severe and unkind; extremely tough and unpleasant to inhabit
83. rud_____ry understanding *adj.* relating to basic facts or principles; fundamental
84. ad_____e the technology *v.* to go or move forward; to develop in a positive way
85. a rud_____ry plant *adj.* relating to basic facts or principles; fundamental
86. em_____e light *v.* to emit, send out something; to express a quality or feeling
87. v__t desert *adj.* enormous in size, number, amount, or quantity
88. me__e into a new party *v.* to combine or integrate things, or to cause this to happen

ANSWERS: 79. lens, 80. spirit, 81. near-death, 82. harsh, 83. rudimentary, 84. advance, 85. rudimentary, 86. emanate, 87. vast, 88. merge

89. a member of the Ac____y *n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field
90. an_____on film *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
91. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
92. age com_____on of the population *n.* the different parts of something's elements or ingredients; the way in which the different components are organized; a piece of music written by someone
93. a cr_____ng-keeper *n.* the act of going from one side to the other; a place where roads, railway tracks, or rivers intersect
94. a stone wall su_____nds the palace *v.* to be all around something or somebody
95. co_____ce ideas *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

ANSWERS: 89. academy, 90. animation, 91. process, 92. composition, 93. crossing, 94. surround, 95. coalesce

96. si_____te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
97. lu_____us glow *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
98. cac_____us noise *adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise
99. 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; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
100. 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
101. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
102. sh___w cast *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner

ANSWERS: 96. simulate, 97. luminous, 98. cacophonous, 99. orbit, 100. astrophysics, 101. gravitational, 102. shadow

103. perpetuate a m__h *n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
104. re____te in the same frequency *v.* to be filled with a deep echoing sound
105. a photo st____o *n.* a room or building where creative or artistic work is produced; a television or radio production company
106. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
107. provide ac____te information *adj.* correct and exact in all details
108. so__c wave *adj.* connected with the nature of sound, sound waves, or the speed
109. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
110. pre_____ly accurate *adv.* believed to be true or likely based on the available evidence, or supposed to be the case without definite proof
111. st____ng disclosure *adj.* causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence
112. tr____h excavator *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
113. ba____rd angle *adv.* at, to, or toward the direction or place that is behind or rear

ANSWERS: 103. myth, 104. resonate, 105. studio, 106. gravitational, 107. accurate, 108. sonic, 109. predict, 110. presumably, 111. stunning, 112. trench, 113. backward

114. a g__d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
115. on a qu__t for happiness *n.* a long or challenging search for something
116. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
117. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
118. su_____e the truth *v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known
119. b__g a phone down *v.* to hit or cause to hit something in a way that makes a loud noise
120. c__t a ballot *v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process
121. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
122. ca___n ball *n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

ANSWERS: 114. grid, 115. quest, 116. curve, 117. instrument, 118. surmise, 119. bang, 120. cast, 121. backward, 122. cannon

123. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
124. a warm em_____e *v.* to accept something willingly and enthusiastically; (noun) the act of claspings another person in the arms as in greeting or affection
125. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
126. su_____e the situation *v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known
127. re_____te the spark *v.* to cause something to start burning again
128. li_____me ban from the sport *n.* the duration of someone's life or something's existence;
129. an el_____e criminal *adj.* difficult to find, define, achieve, or remember
130. cal_____on of loss and gain *n.* the act or process of using numbers to judge an amount of something
131. ill_____te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
132. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

ANSWERS: 123. detect, 124. embrace, 125. mathematics, 126. surmise, 127. reignite, 128. lifetime, 129. elusive, 130. calculation, 131. illuminate, 132. crack

133. the nu_____s of a team *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
134. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
135. a remote re_____ve *adj.* considered and evaluated through comparison with something else
136. sp_____ng machine *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
137. 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
138. pr_____e changes *v.* to make a proposal, declare a plan for something
139. si_____te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
140. bite his tongue li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

ANSWERS: 133. nucleus, 134. environment, 135. relative, 136. spinning, 137. astrophysics, 138. propose, 139. simulate, 140. literally

141. li_____me benefits *n.* the duration of someone's life or something's existence;
142. st_____ng water *adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
143. em_____e an opportunity *v.* to accept something willingly and enthusiastically; (noun) the act of claspng another person in the arms as in greeting or affection
144. the c__e of an apple *n.* the most essential or fundamental part of something
145. f__d memories of the birthday *adj.* having affection or liking for someone, particularly someone you've known for a long time
146. st_____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
147. oxygen a__m *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
148. a wire g__d *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
149. play ha__c in the mind *n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
150. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 141. lifetime, 142. standing, 143. embrace, 144. core, 145. fond, 146. stretch, 147. atom, 148. grid, 149. havoc, 150. extraordinary

151. ha___r a resentment *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
152. a re_____ic goal *adj.* having or showing a sensible and practical idea that is possible to achieve
153. 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
154. pr___n conductivity *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
155. ca_____te the distance *v.* to judge or find out the amount or number of something by using mathematics
156. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
157. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
158. co___c background radiation *adj.* relating to the universe or cosmos; vast or limitless
159. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol

ANSWERS: 151. harbor, 152. realistic, 153. sensitivity, 154. proton, 155. calculate, 156. background, 157. fundamental, 158. cosmic, 159. definition

160. se_____nt beings *adj.* having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness
161. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
162. de_____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
163. a fr_____onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
164. experimentally obs_____le *adj.* that can be noticed or seen
165. d__g a bell *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
166. burst of gu_____e *n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time
167. the stock market co_____sed *v.* to fall down or give way suddenly, often after breaking apart
168. sl_____ly alkaline soils *adv.* in a small degree or extent; a little
169. si____t reading *adj.* without any or little sound

ANSWERS: 160. sentient, 161. germ, 162. destroy, 163. fraction, 164. observable, 165. ding, 166. gunfire, 167. collapse, 168. slightly, 169. silent

170. a sheltered ha___r *n.* an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession
171. find an od___y *n.* something unusual or different
172. domiciliary c__es *n.* a large hole in the side of a hill, cliff, mountain, or under the ground
173. with fr_____c haste *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
174. partial ec_____e *n.* an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something
175. wo___e chair *v.* to move or shake unsteadily from side to side or up and down
176. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
177. a convex l__s *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
178. gain a va_____e *n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

ANSWERS: 170. harbor, 171. oddity, 172. cave, 173. frantic, 174. eclipse, 175. wobble, 176. extraordinary, 177. lens, 178. vantage

179. stripes cha_____tic of the zebra *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
180. ind_____ly related *adv.* not going straight to the point; implying or suggesting something
181. short du_____on *n.* the length of time something lasts or continues
182. ga_____ic scale *adj.* relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
183. scenic wa_____ll *n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock
184. ec_____e a competitor *n.* an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something
185. 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
186. cr_____re of habit *n.* a living being, especially an animal
187. a wa_____ll with a fall of ten feet *n.* a point in a river or stream where water falls from a high place, for example, over a cliff or rock

ANSWERS: 179. characteristic, 180. indirectly, 181. duration, 182. galactic, 183. waterfall, 184. eclipse, 185. universe, 186. creature, 187. waterfall

188. 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
189. de___r a meal *v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly
190. percussion ma___t *n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba
191. lethal gu_____e *n.* the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time
192. co_____e in midair *v.* to hit something violently when moving
193. a dr_____ic rescue at sea *adj.* very sudden, very excellent, or full of action and excitement
194. the th___l of speed *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
195. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
196. an ac_____y of music *n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field

ANSWERS: 188. generation, 189. devour, 190. mallet, 191. gunfire, 192. collide, 193. dramatic, 194. thrill, 195. capture, 196. academy

197. 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
198. sp_____ng wheel *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
199. ce_____al bliss *adj.* relating to the sky or the heavens; of or like the sky or the heavens
200. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
201. di____e blood vessel *v.* to make something wider, larger, or more open
202. 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
203. 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
204. th__p a blistering shot *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
205. cultural rel_____sm *n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined

ANSWERS: 197. instrument, 198. spinning, 199. celestial, 200. calculate, 201. dilate, 202. planet, 203. sensitivity, 204. thump, 205. relativism

206. nea_____th condition	<i>adj.</i> relating to a state in which a person is close to dying or has had a close brush with death
207. make dr_____ic changes	<i>adj.</i> very sudden, very excellent, or full of action and excitement
208. a gl_____us victory	<i>adj.</i> having or deserving great admiration, praise, and honor; having great beauty and splendor
209. the mouth of the c___e	<i>n.</i> a large hole in the side of a hill, cliff, mountain, or under the ground
210. a w__t of summons	<i>n.</i> a written legal order or command
211. ind_____ly impact	<i>adv.</i> not going straight to the point; implying or suggesting something
212. genetic od___y	<i>n.</i> something unusual or different
213. co_____ce an opponent	<i>v.</i> to persuade someone or make someone believe that something is true
214. un___d the stroller	<i>v.</i> to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
215. music st___o	<i>n.</i> a room or building where creative or artistic work is produced; a television or radio production company
216. de_____y the ecosystem	<i>v.</i> to ruin or damage severely or completely; to eradicate or eliminate completely
217. se_____nt robots	<i>adj.</i> having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness

ANSWERS: 206. near-death, 207. dramatic, 208. glorious, 209. cave, 210. writ, 211. indirectly, 212. oddity, 213. convince, 214. unfold, 215. studio, 216. destroy, 217. sentient

218. quantum sp_____me *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
219. lu_____us stars *adj.* emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment
220. de_____e from the norm *v.* to depart from an established course or plan; to change direction or take a different route or approach
221. sh___w puppetry *n.* a dark area or shape cast by an object blocking the passage of light; an area in darkness or shade; a reflected image or copy of something; a person, activity, or influence that follows or accompanies someone or something closely and persistently, often in a secretive or ominous manner
222. 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
223. ch___n in my stomach *v.* to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

ANSWERS: 218. spacetime, 219. luminous, 220. deviate, 221. shadow, 222. unfold, 223. churn

224. ev__e an issue *v.* to escape from or avoid meeting someone or something
225. W__e off dirt *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
226. 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
227. v__r toward danger *v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another
228. vo___e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
229. de___e the loser *v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely
230. first l__e *n.* a narrow road in the countryside; a well-defined track or path for someone such as a swimmer or driver
231. make a cal_____on *n.* the act or process of using numbers to judge an amount of something
232. ha_____le space *adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being
233. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
234. re_____ve factors *adj.* considered and evaluated through comparison with something else

ANSWERS: 224. evade, 225. wipe, 226. vision, 227. veer, 228. volume, 229. deride, 230. lane, 231. calculation, 232. habitable, 233. fundamental, 234. relative

235. the ch____c economic situation *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
236. at so__c speed *adj.* connected with the nature of sound, sound waves, or the speed
237. un_____ul for people *adj.* not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
238. d__g a team down *v.* to pull or haul with force
239. rem_____le achievement *adj.* worthy of attention because unusual or special
240. gl_____us movie stars *adj.* highly attractive and exciting, and different from ordinary things or people
241. artistic exp_____on *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
242. pr_____e the amendment *v.* to make a proposal, declare a plan for something
243. linguistic rel_____sm *n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined
244. pr_____le cause of a fire *adj.* likely to happen or likely to be true
245. per_____al devices *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential

ANSWERS: 235. chaotic, 236. sonic, 237. unhelpful, 238. drag, 239. remarkable, 240. glamorous, 241. expression, 242. propose, 243. relativism, 244. probable, 245. peripheral

246. em____e happiness *v.* to emit, send out something; to express a quality or feeling
247. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
248. the ch__p of a bird *n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
249. sp_____me continuum *n.* a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity
250. artificial cr____re *n.* a living being, especially an animal
251. st___c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing
252. photo in gl_____us color *adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor
253. cr_____ng bridge *n.* the act of going from one side to the other; a place where roads, railway tracks, or rivers intersect
254. mo___n poetry *adj.* of or belonging to the present time or recent times
255. ded_____on to public service *n.* a lot of time and energy that someone puts in for an activity or purpose because they believe it is important
256. de_____e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach

ANSWERS: 246. emanate, 247. definition, 248. chirp, 249. spacetime, 250. creature, 251. static, 252. glorious, 253. crossing, 254. modern, 255. dedication, 256. deviate

257. 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
258. pa__h of grass *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
259. h_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
260. b__e minimum *adj.* not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something
261. cast gl_____us eyes *adj.* highly attractive and exciting, and different from ordinary things or people
262. a m__s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
263. co_____ce with the other *v.* to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole
264. elliptic ga___y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
265. pile of de___s *n.* broken or torn fragments of something

ANSWERS: 257. atom, 258. patch, 259. hop, 260. bare, 261. glamorous, 262. mass, 263. coalesce, 264. galaxy, 265. debris

266. ac____te measurements *adj.* correct and exact in all details
267. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
268. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
269. the mul_____se hypothesis *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
270. wo____e a few steps *v.* to move or shake unsteadily from side to side or up and down
271. st____ng beauty *adj.* causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence
272. critical m__s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
273. ill_____te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
274. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
275. boundless am_____on *n.* a strong wish to do or achieve something
276. victim of cat_____hic injuries *adj.* extremely harmful; causing physical or financial destruction

ANSWERS: 266. accurate, 267. curve, 268. vision, 269. multiverse, 270. wobble, 271. stunning, 272. mass, 273. illuminate, 274. experiment, 275. ambition, 276. catastrophic

277. d__g a chair over *v.* to pull or haul with force
278. su____nd a town *v.* to be all around something or somebody
279. fa__t aroma of roses *adj.* not strong, clear, or vigorous; slight or weak
280. cat_____hic climate change *adj.* extremely harmful; causing physical or financial destruction
281. br___h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
282. a tra_____ry missile *n.* the curved path followed by an object moving through space
283. pre_____ly refuse the offer *adv.* believed to be true or likely based on the available evidence, or supposed to be the case without definite proof
284. a chemical eq_____on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
285. the concept of the mul_____se *n.* a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
286. fo_____on flight *n.* the way something is created naturally or the way it has been arranged
287. b__e essentials *adj.* not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something

ANSWERS: 277. drag, 278. surround, 279. faint, 280. catastrophic, 281. branch, 282. trajectory, 283. presumably, 284. equation, 285. multiverse, 286. formation, 287. bare

288. the e__o of a person's footsteps *n.* a sound heard after being reflected off a surface, such as a wall or a cliff
289. d__g a ling *v.* to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food
290. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
291. increase sl_____ly *adv.* in a small degree or extent; a little
292. strategic va_____e *n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage
293. de___r my way *v.* to eat or consume something eagerly or ravenously; or to destroy something rapidly
294. 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; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
295. sq_____e a confession *v.* to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness

ANSWERS: 288. echo, 289. ding, 290. generation, 291. slightly, 292. vantage, 293. devour, 294. orbit, 295. squeeze

296. a st____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations
297. v__r to the left *v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another
298. o_e him a grudge *v.* to be under a moral or legal obligation to pay or do something in return for something received;
299. field of vi____l arts *adj.* relating to seeing or sight
300. the eq____on of poverty with ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
301. pl__e of feathers *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
302. co____e head-on *v.* to hit something violently when moving
303. second co____c velocity *adj.* relating to the universe or cosmos; vast or limitless
304. wr__k further damage *v.* to cause or bring about something, often as a result of harmful or destructive actions or events
305. human ev____on *n.* a gradual process of transformation of living things
306. st____c website *adj.* not moving or not capable of moving, not changing or not capable of changing

ANSWERS: 296. straight, 297. veer, 298. owe, 299. visual, 300. equation, 301. plume, 302. collide, 303. cosmic, 304. wreak, 305. evolution, 306. static

307. origin of the co___s *n.* another name for the universe, mainly used when it is thought of as an ordered system
308. 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
309. translate li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
310. di___e the bronchial tubes *v.* to make something wider, larger, or more open
311. a motion picture with a sou_____ck *n.* the recorded audio that accompanies a movie, television program, or video game
312. mo___g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
313. the m__h of an old religion *n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
314. driving di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
315. nutrient-de___e foods *adj.* containing a large number of people or something with little space between them
316. racial or___n *n.* the first existence or beginning of something

ANSWERS: 307. cosmos, 308. universe, 309. literally, 310. dilate, 311. soundtrack, 312. moving, 313. myth, 314. distance, 315. dense, 316. origin

317. a dis_____ce caused by a terrorist *n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
318. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
319. ma_____e amounts *adj.* enormous amount; very heavy and solid
320. l___e change *n.* a narrow road in the countryside; a well-defined track or path for someone such as a swimmer or driver
321. space de____s *n.* broken or torn fragments of something
322. re____r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
323. a rock fo_____on *n.* the way something is created naturally or the way it has been arranged
324. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
325. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
326. ma_____e stars *adj.* enormous amount; very heavy and solid
327. a br____h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
328. de____t a blow *v.* to cause something, especially a criticism or attack, to be directed away from someone

ANSWERS: 317. disturbance, 318. prediction, 319. massive, 320. lane, 321. debris, 322. render, 323. formation, 324. industrious, 325. mathematics, 326. massive, 327. branch, 328. deflect

329. take a sn____ot *n.* an informal photograph, especially one taken quickly
330. give si____t consent *adj.* without any or little sound
331. tu____l construction work *n.* an underground or underwater passage, typically for trains or cars
332. a nervous dis____ce *n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
333. sou____ck album *n.* the recorded audio that accompanies a movie, television program, or video game
334. fr____c pace *adj.* marked by uncontrolled excitement or emotion; wild; frenzied
335. with an am____us eye *adj.* having a great desire to attain achievement, power, or wealth
336. w__e with water *v.* to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
337. ro____t attack against the enemy *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
338. sp__l my heart *v.* to cause or allow liquid to run or flow over the edge of its container by accident
339. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 329. snapshot, 330. silent, 331. tunnel, 332. disturbance, 333. soundtrack, 334. frantic, 335. ambitious, 336. wipe, 337. rocket, 338. spill, 339. process

340. ba_____ic vest *adj.* relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
341. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
342. lucky ma____t *n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba
343. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
344. ready to co_____se *v.* to fall down or give way suddenly, often after breaking apart
345. cause ha__c *n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
346. a warm tr__l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
347. per_____on of a stimulus *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
348. cac_____us city streets *adj.* producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise

ANSWERS: 340. ballistic, 341. advance, 342. mallet, 343. eventually, 344. collapse, 345. havoc, 346. trail, 347. perception, 348. cacophonous

349. vi___l navigation *adj.* relating to seeing or sight
350. follow the tr___l *n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind
351. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
352. ha_____le planet *adj.* able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being
353. track down an el_____e fact *adj.* difficult to find, define, achieve, or remember
354. de_____t his criticism *v.* to cause something, especially a criticism or attack, to be directed away from someone
355. an imp_____ve array of facts *adj.* arousing admiration due to size, quality, or skill
356. the ch___p of a cricket *n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
357. his social st_____ng *adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
358. achieve am_____us goals *adj.* having a great desire to attain achievement, power, or wealth
359. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.

ANSWERS: 349. visual, 350. trail, 351. environment, 352. habitable, 353. elusive, 354. deflect, 355. impressive, 356. chirp, 357. standing, 358. ambitious, 359. render

360. form a nu_____s
- n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
361. pr____n decay
- n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
362. ev_____on theory
- n.* a gradual process of transformation of living things
363. look through a te_____pe
- n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
364. co_____ce her to go with us
- v.* to persuade someone or make someone believe that something is true
365. 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
366. an_____on studio
- n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
367. ce_____al navigation
- adj.* relating to the sky or the heavens; of or like the sky or the heavens
368. pr_____le outcome
- adj.* likely to happen or likely to be true

ANSWERS: 360. nucleus, 361. proton, 362. evolution, 363. telescope, 364. convince, 365. planet, 366. animation, 367. celestial, 368. probable

369. pr____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
370. ind____us student *adj.* hardworking, diligent, and persistent in effort
371. the e_a of the Renaissance *n.* a period that is distinct from others, typically in history
372. th__p on the back *v.* to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
373. keen per____on *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

ANSWERS: 369. predict, 370. industrious, 371. era, 372. thump, 373. perception

Session 3: Fill in the Blanks

1. That company has introduced a new aircraft that can minimize the generation of a _____ boom.
adj. connected with the nature of sound, sound waves, or the speed
2. Their company has been in business for a short time but has _____ goals.
adj. having a great desire to attain achievement, power, or wealth
3. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected
4. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort
5. 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
6. I heard someone _____ on the door, and when I opened it, no one was there.
v. to strike or hit heavily or repeatedly, often with a dull, resonating sound; to pound or beat forcefully
7. This building construction causes serious _____ to residents.
n. something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
8. The _____ bodies in the night sky were beautiful to behold.
adj. relating to the sky or the heavens; of or like the sky or the heavens

ANSWERS: 1. sonic, 2. ambitious, 3. fundamental, 4. industrious, 5. universe, 6. thump, 7. disturbance, 8. celestial

9. She knew he would _____ her for her unconventional beliefs, but she shared them anyway.
- v.* to ridicule or mock someone or something, often contemptuously or scornfully; to criticize or attack severely
10. The military incarcerated him for the _____ of the war.
- n.* the length of time something lasts or continues
11. Change is also occurring in Turkey as a result of _____ reform.
- adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
12. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
13. The _____ sunset took everyone's breath away.
- adj.* causing a strong emotional reaction of admiration, surprise, or shock due to its beauty, rarity, or excellence
14. He _____ jumped out of his chair when he heard the news.
- adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
15. The security camera has _____ four intruders.
- v.* to find or recognize something, especially something difficult to see, hear, etc.
16. She works at a recording _____ in Los Angeles.
- n.* a room or building where creative or artistic work is produced; a television or radio production company

ANSWERS: 9. deride, 10. duration, 11. chaotic, 12. advance, 13. stunning, 14. literally, 15. detected, 16. studio

17. The building was _____ in the fire and had to be rebuilt.
v. to ruin or damage severely or completely; to eradicate or eliminate completely
18. The journalist heard the sound of _____ while reporting in a war zone.
n. the sound or act of shooting a firearm; the noise created by multiple guns firing at the same time
19. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
20. The photographer took this photo using a telephoto _____.
n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
21. She wore a simple dress with a _____ neckline
adj. not covered or clothed; lacking embellishment or decoration; mere or basic; undisguised or open; empty or devoid of something
22. His _____ attitude made it difficult for the team to complete the project on time.
adj. not providing assistance or support; not contributing to the solution of a problem or the achievement of a goal
23. The boss went _____ when he found out we missed the deadline.
adj. relating to or resembling the motion or behavior of a projectile in flight; intensely angry or out of control
24. The _____ in the road was so sharp that I had to slow down to navigate it safely.
n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

ANSWERS: 17. destroyed, 18. gunfire, 19. origin, 20. lens, 21. bare, 22. unhelpful, 23. ballistic, 24. curve

25. I can only _____ what happened while I was away.

- v.* to guess or assume something based on incomplete or limited information; to make an educated guess or inference based on what is known

26. They study the _____ of the universe.

- n.* a gradual process of transformation of living things

27. The extinction rate of aquatic animals was _____.

- adj.* extremely harmful; causing physical or financial destruction

28. A _____ audience viewed the broadcast.

- adj.* enormous in size, number, amount, or quantity

29. The car _____ off the road and crashed into a tree.

- v.* to change direction suddenly or sharply; to turn or swerve from one course or direction to another

30. The budget reduction was an _____ feat for our nation.

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

31. He has a flair for _____.

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

32. He had painted the wood to _____ stone.

- v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 25. surmise, 26. evolution, 27. catastrophic, 28. vast, 29. veered, 30. impressive, 31. mathematics, 32. simulate

33. Character _____ is one of the goals of education.

n. the way something is created naturally or the way it has been arranged

34. These results muddied the _____.

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

35. The Milky Way is a _____ collection of billions of stars and planets.

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

36. She _____ the mystery novel in one sitting.

v. to eat or consume something eagerly or ravenously; or to destroy something rapidly

37. Skydiving is an overwhelming _____ for many people.

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

38. 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

39. Their headquarters are in a _____ skyscraper.

adj. of or belonging to the present time or recent times

40. 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

ANSWERS: 33. formation, 34. prediction, 35. galactic, 36. devoured, 37. thrill, 38. cosmos, 39. modern, 40. generation

41. She _____ the toothpaste tube from the middle to get the last bit out.
v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
42. Years of river erosion have formed the uniquely shaped _____ basin.
n. a point in a river or stream where water falls from a high place, for example, over a cliff or rock
43. The workers had to dig through solid rock to create the vehicular _____ allowing the cars to pass through the mountain.
n. an underground or underwater passage, typically for trains or cars
44. The physicist who found the _____ particle won the Nobel Prize.
adj. difficult to find, define, achieve, or remember
45. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics
46. A thunderous boom _____ throughout the valley.
n. a sound heard after being reflected off a surface, such as a wall or a cliff
47. That adventurer traveled in _____ of buried treasure.
n. a long or challenging search for something
48. Please _____ your sweat with this towel.
v. to clean or dry something by rubbing with a piece of cloth or paper or one's hand and removing dirt, food, or liquid
49. The cream needs to be _____ for several minutes before it becomes butter.
v. to stir or agitate a liquid, substance, or mixture vigorously to produce foam or because of violent movement; to cause a large number of people to move or leave; to produce something, such as money, through continuous activity or turnover

ANSWERS: 41. squeezed, 42. waterfall, 43. tunnel, 44. elusive, 45. calculate, 46. echoed, 47. quest, 48. wipe, 49. churned

50. The marathon runner covered a long _____ in a short amount of time.
- n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
51. With the financial bubble bursting, the _____ of economic growth in investment banking collapsed.
- n.* an ancient story or set of stories accepted as history, especially explaining the worldview of a people
52. Most countries prohibit sexual activity between certain close _____.
- adj.* considered and evaluated through comparison with something else
53. The heavy _____ fired a loud shot that echoed across the battlefield.
- n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
54. Any theorem relies on both _____ fact and assumption.
- adj.* that can be noticed or seen
55. He was determined to _____ everything.
- v.* to cause or allow liquid to run or flow over the edge of its container by accident
56. The _____ of people who do not own property is politically impotent.
- n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
57. The _____ of the tree had fallen and blocked the road.
- n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

ANSWERS: 50. distance, 51. myth, 52. relatives, 53. cannon, 54. observable, 55. spill, 56. mass, 57. branch

58. Bats reside in sheltered _____.

n. a large hole in the side of a hill, cliff, mountain, or under the ground

59. The curvature of _____ is affected by the presence of mass and energy.

n. a four-dimensional continuum consisting of three dimensions of space and one dimension of time, used to describe the physical universe according to Einstein's theory of general relativity

60. The various universes within the _____ are sometimes called parallel universes.

n. a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them

61. This container has a _____ of 10 cubic meters.

n. the amount of space occupied by an object or substance; the magnitude of sound

62. I accidentally _____ my new car door in the parking lot.

v. to make a ringing, chiming, or knocking sound; to damage or dent a surface through impact or collision; (noun, Chinese) a type of ancient cooking vessel that was used for cooking, boiling, and steaming food

63. He has only a _____ knowledge of this topic.

adj. relating to basic facts or principles; fundamental

64. I need to sew a _____ onto my jeans that ripped.

n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose

65. The car was completely _____ in the accident.

v. to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller

ANSWERS: 58. caves, 59. spacetime, 60. multiverse, 61. volume, 62. dinged, 63. rudimentary, 64. patch, 65. crushed

66. I choose a _____ death rather than a shameful life.

adj. having or deserving great admiration, praise, and honor; having great beauty and splendor

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

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

68. Their innovative concepts were consistent across their bodies of _____.

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

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

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

70. Marine _____ is a major continuous global problem.

n. broken or torn fragments of something

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

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

72. The solar wind is composed almost entirely of electrons and _____.

n. a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms

73. I want to _____ a toast in honor of our longstanding relationship.

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

ANSWERS: 66. glorious, 67. backward, 68. composition, 69. orbit, 70. debris, 71. calculation, 72. protons, 73. propose

74. Jockey's superior _____ brought him victory.

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

75. The _____ concert was packed with fans.

adj. existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation

76. The two-headed snake was an _____ at the zoo.

n. something unusual or different

77. The corporation _____ dominated the entire tobacco business.

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

78. We are very impressed with your strong _____ to quality.

n. a lot of time and energy that someone puts in for an activity or purpose because they believe it is important

79. The movie had an unexpected _____ leaving the audience disappointed and confused.

n. a disappointing or unfulfilling conclusion or event that is less exciting, impressive, or dramatic than expected; a sudden, often jarring reduction in intensity or excitement after a build-up or expectation

80. He is excessively _____ of alcohol.

adj. having affection or liking for someone, particularly someone you've known for a long time

81. Surviving a _____ experience can change your outlook on life.

adj. relating to a state in which a person is close to dying or has had a close brush with death

ANSWERS: 74. technique, 75. standing, 76. oddity, 77. eventually, 78. dedication, 79. anticlimax, 80. fond, 81. near-death

82. The virus has _____ havoc on the healthcare system, overwhelming hospitals and causing shortages of supplies.
- v.* to cause or bring about something, often as a result of harmful or destructive actions or events
83. 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
84. The percussionist switched from sticks to _____ for a softer sound.
- n.* a tool used to strike or tap an object, typically with a wooden, rubber, or plastic head; a percussion instrument consisting of a handle and a head, often used in orchestral percussion and marimba
85. She _____ her friend a favor for helping her move.
- v.* to be under a moral or legal obligation to pay or do something in return for something received;
86. The _____ of the characters in the movie was so realistic, and it was as if they were there.
- n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
87. The bird had a beautiful _____ on its head.
- n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
88. There were framed _____ of family and friends in her room.
- n.* an informal photograph, especially one taken quickly

ANSWERS: 82. wreaked, 83. atom, 84. mallets, 85. owes, 86. animation, 87. plume, 88. snapshots

89. The room was filled with _____ decorations that shone in the dark.

adj. emitting or reflecting light, especially in the dark; shining or glowing brightly; full of light or enlightenment

90. People across the country gathered to watch the solar _____ in wonder and amazement.

n. an obscuring of one celestial body by another, often used to describe a lunar or solar eclipse; a period of obscurity or decline, often used to describe a decline in popularity or influence; (verb) to surpass, overshadow, or outshine someone or something

91. His _____ showed highly positive results.

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

92. The south coast is less _____ yet has many clean and appealing hotels.

adj. highly attractive and exciting, and different from ordinary things or people

93. His facial _____ showed a mix of surprise and confusion.

n. the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood

94. From our _____ point, we could see the whole city skyline.

n. a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

95. 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

ANSWERS: 89. luminous, 90. eclipse, 91. experiments, 92. glamorous, 93. expression, 94. vantage, 95. unfolded

96. 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
97. _____ rays are high-energy particles that originate from outside the solar system.
- adj.* relating to the universe or cosmos; vast or limitless
98. Some herds have been observed to _____ hundreds of kilometers.
- v.* to make or be capable of making anything longer or broader without hurting or breaking
99. The pupils of the eyes _____ in low light.
- v.* to make something wider, larger, or more open
100. We walked along a muddy _____ to reach the farm.
- n.* a narrow road in the countryside; a well-defined track or path for someone such as a swimmer or driver
101. The roof finally _____ after three days and three nights of heavy snowfall.
- v.* to fall down or give way suddenly, often after breaking apart
102. The storm wreaked _____ on the town, causing widespread damage and power outages.
- n.* widespread destruction or devastation, often caused by natural disasters, war, or other violent events
103. 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

ANSWERS: 96. environment, 97. Cosmic, 98. stretch, 99. dilate, 100. lane, 101. collapsed, 102. havoc, 103. astrophysics

104. The fragrance of flowers _____ from the garden.

v. to emit, send out something; to express a quality or feeling

105. The various departments of the company will _____ into one cohesive unit.

v. to come together or merge into a single group, mass, or whole; to blend or combine elements or ideas into a unified whole

106. The rabbit _____ over the fence.

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

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

adj. enormous amount; very heavy and solid

108. 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

109. The CEO _____ expressed her disappointment with the project's progress.

adv. not going straight to the point; implying or suggesting something

110. He was sick for five _____ days.

adj. extending or moving in one direction without bending or curving; having no deviations

111. 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

ANSWERS: 104. emanated, 105. coalesce, 106. hopped, 107. massive, 108. deflect, 109. indirectly, 110. straight, 111. instrument

112. The election was a _____ success for the Whigs.

adj. worthy of attention because unusual or special

113. It's important not to _____ from the established safety procedures.

v. to depart from an established course or plan; to change direction or take a different route or approach

114. The statement had a _____ impact on house prices.

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

115. The interests of the two countries _____.

v. to hit something violently when moving

116. Political corruption was common throughout the postwar ____.

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

117. The city's _____ areas should be given more attention regarding infrastructure and resources.

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

118. The tsunami swamped every boat in the _____.

n. an area of water next to the coast where ships and boats are protected from rough water by piers, jetties, and other artificial structures; (verb) keep in one's possession

119. He is a man admired for the depth of his _____.

n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

ANSWERS: 112. remarkable, 113. deviate, 114. dramatic, 115. collide, 116. era, 117. peripheral, 118. harbor, 119. perception

120. Greed and _____ composed his personality.

n. a strong wish to do or achieve something

121. Despite their tragic loss, the family is showing great _____.

n. the part of a person which is the seat of their mind, feelings, and character rather than their physical body; the general atmosphere of a place or situation and the effect that it has on people

122. 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

123. Animals such as dolphins and elephants are highly _____ and intelligent creatures.

adj. having the ability to perceive or feel things, particularly through sense perception like touch or sight, especially at higher levels of intelligence and consciousness

124. 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

125. The _____ of his idea came from watching birds flying in flocks.

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

126. _____ pattern roads often appear in urban areas.

n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 120. ambition, 121. spirit, 122. vision, 123. sentient, 124. launch, 125. germ, 126. Grid

127. 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

128. In this class, you will learn how to solve quadratic _____.

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

129. The deep sea _____ was unlike anything the scientists had ever seen before.

- n.* a living being, especially an animal

130. Moral _____ suggests that there is no objective right or wrong.

- n.* the belief that truth, knowledge, or morality are not absolute or objective but instead relative to the context in which they are perceived or determined

131. I am considering what I should do to _____ him.

- v.* to persuade someone or make someone believe that something is true

132. The woods _____ the house.

- v.* to accept something willingly and enthusiastically; (noun) the act of clasping another person in the arms as in greeting or affection

133. The company's hiring criteria emphasize personality, not a person's _____.

- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

134. He spent only a _____ of his earnings.

- n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

ANSWERS: 127. capture, 128. equations, 129. creature, 130. relativism, 131. convince, 132. embrace, 133. background, 134. fraction

135. His speech _____ the passion of the crowd.

v. to cause something to start burning again

136. It's notoriously challenging to _____ birth rates.

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

137. 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

138. She heard a _____ nearly invisible scream.

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

139. The astronauts discovered a potentially _____ planet in the neighboring galaxy.

adj. able to be lived in, suitable or fit for living in, providing sufficient conditions for survival and well-being

140. The _____ to the movie was composed by a famous musician.

n. the recorded audio that accompanies a movie, television program, or video game

141. 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

142. These gas nebulas are merely newborn galactic _____.

n. the most essential or fundamental part of something

ANSWERS: 135. reignited, 136. predict, 137. rocket, 138. faint, 139. habitable, 140. soundtrack, 141. telescope, 142. cores

143. The witness's testimony was _____ based on what he had seen and heard.
adv. believed to be true or likely based on the available evidence, or supposed to be the case without definite proof
144. The _____ chorus of the morning market created an overwhelming yet lively ambiance.
adj. producing a harsh, discordant, or unpleasant mixture of sounds; characterized by a loud and jarring noise
145. She had lived through two world wars in her _____.
n. the duration of someone's life or something's existence;
146. The mother was _____ as she searched for her lost child.
adj. marked by uncontrolled excitement or emotion; wild; frenzied
147. This consulting firm decided to _____ the two companies into one.
v. to combine or integrate things, or to cause this to happen
148. She took a _____ class at the gym to improve her cardiovascular fitness.
n. the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
149. The politician remained _____ despite intense media scrutiny.
adj. without any or little sound
150. Her new documentary earned her an _____ Award.
n. a school for special training; a type of official organization that aims to encourage and develop standards in its particular field

ANSWERS: 143. presumably, 144. cacophonous, 145. lifetime, 146. frantic, 147. merge, 148. spinning, 149. silent, 150. Academy

151. A _____ was being dug alongside the road by workers.

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

152. The tree cast a _____ over the picnic area, providing relief from the sun.

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

153. She felt _____ after finishing her book.

- adj.* having completed a task or achieved a goal successfully; skilled or proficient at something

154. 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

155. The sound of the _____ woke me up early in the morning.

- n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

156. That biologist _____ the mechanism of heredity.

- v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

157. The company has shown an excellent growth _____ over the years.

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

158. 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

ANSWERS: 151. trench, 152. shadow, 153. accomplished, 154. definition, 155. chirp, 156. illuminated, 157. trajectory, 158. sensitivity

159. That story was so _____ and it was scary.

adj. having or showing a sensible and practical idea that is possible to achieve

160. The jailbroken criminal is continuously attempting to _____ the cops.

v. to escape from or avoid meeting someone or something

161. My father tried to _____ mathematics into my head since childhood.

v. to hit or cause to hit something in a way that makes a loud noise

162. The prime minister faced _____ criticism.

adj. severe and unkind; extremely tough and unpleasant to inhabit

163. 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

164. They sought candidates with _____ and good-natured.

adj. tending to work with a lot of effort and care

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

adj. likely to happen or likely to be true

166. 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)

167. The official transcript contains _____ academic records.

adj. correct and exact in all details

ANSWERS: 159. realistic, 160. evade, 161. bang, 162. harsh, 163. static, 164. hardworking, 165. probable, 166. gravitational, 167. accurate

168. He _____ the heavy suitcase behind him as he walked.

v. to pull or haul with force

169. He moved his body _____ to the left.

adv. in a small degree or extent; a little

170. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

171. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

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

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

173. The busy road was closed for a few hours for a railway _____.

n. the act of going from one side to the other; a place where roads, railway tracks, or rivers intersect

174. 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

175. The entire mountain is covered in _____ rainforest.

adj. containing a large number of people or something with little space between them

176. The sound _____ well in this theater.

v. to be filled with a deep echoing sound

ANSWERS: 168. dragged, 169. slightly, 170. surround, 171. visual, 172. moving, 173. crossing, 174. galaxy, 175. dense, 176. resonates

177. DNA is stored in the _____ of a cell.

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

178. He was served with a _____ of eviction, giving him the notice to vacate the property.

- n.* a written legal order or command

179. The storm left a _____ of destruction behind it.

- n.* a path or track roughly through a countryside, mountain, or forest area, often made or used for a particular purpose; (verb) to lag or linger behind

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

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

181. This accident _____ a dark shadow over their lives.

- v.* to cause light or shadow to appear on a surface; to assign or choose someone such as an actor or representative, especially by selection process

182. 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

183. The _____ for applying for a visa can be lengthy and complicated.

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

ANSWERS: 177. nucleus, 178. writ, 179. trail, 180. crack, 181. cast, 182. planet, 183. process

184. The table _____ a little when I put my drink on it.

v. to move or shake unsteadily from side to side or up and down

185. The jury must _____ a decision on this complex case.

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

186. Bananas have their _____ taste and odor.

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

187. He narrated the _____ story of his adventure.

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

ANSWERS: 184. wobbled, 185. render, 186. characteristic, 187. extraordinary