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Vocabulary Builder Reference from...

George Smoot: The design of the universe | TED Talk
https://www.ted.com/talks/george_smoot_the_design_of_the_universe

All Words

IMPORTANT

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Session 1: Word List

perspective

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

synonym : viewpoint, standpoint, outlook

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

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

slide

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

synonym : glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

dawning

adj. relating to or occurring at the beginning or early stages of something; characterized by the first appearance of light or knowledge; (noun) the beginning or first appearance of something

synonym : emerging, beginning

(1) the **dawning** of the Internet age, (2) **dawning**

awareness

The **dawning** realization of their mistake was evident on their faces.

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.

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.

investigation

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

synonym : examination, analysis, inspection

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

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

relic

n. an object from a previous era, especially one of historical value

synonym : whiff, vestige, antique

(1) historical **relic**, (2) holy **relics**

This bronze sword is a **relic** of ancient times.

infer

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

synonym : guess, deduce, assume

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

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

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.

reshape

v. to change the form or structure of something

synonym : alter, adjust, modify

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

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

forth

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

synonym : forward, onwards, ahead

(1) bring **forth** a beautiful vase, (2) call **forth** demand

I pushed **forth** with my new project, even though it would take much hard work.

continuity

n. the state or quality of being continuous, uninterrupted, or consistent; the maintenance of a connection, sequence, or pattern

synonym : coherence, uninterruptedness, perseverance

(1) **continuity** plan, (2) **continuity** of service

The sudden departure of the team leader disrupted the project's **continuity**.

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.

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.

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.

confer

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

synonym : consult, meet, discuss

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

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

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym : brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

cosmology

n. the scientific study of the nature and origin of the universe

synonym : cosmogony

(1) physical **cosmology**, (2) modern **cosmology**

Cosmology evolved from people's philosophical questions about the natural world.

represent

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

synonym : depict, express, describe

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

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

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.

visible

adj. capable of being seen; or open to easy view

synonym: clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

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.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

roughly

adv. approximately but not precisely; with a violent manner

synonym: approximately, more or less, around

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

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

conundrum

n. a confusing and difficult problem or question

synonym: puzzle, riddle, enigma

(1) **conundrum** of choice, (2) pose a **conundrum**

The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

creative

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

synonym: imaginative, innovative, inventive

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

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

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

incredibly

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

synonym: enormously, exceptionally, extraordinarily

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

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

nest

n. a structure in which animals lay their eggs or give birth to their young

synonym: roost, perch, burrow

(1) bird's **nest**, (2) a **nest** of thieves

The female birds build a **nest** and lay their eggs in May.

sphere

n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

synonym: ball, globe, scope

(1) **sphere** of influence, (2) business **sphere**

The **sphere** of the earth is divided into several layers including the crust, mantle, and core.

observation

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

synonym: watching, notice, reflection

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

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

ordinary

adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

synonym : mundane, prosaic, average

(1) an **ordinary** school, (2) **ordinary** annual revenue

The **ordinary** session of the Diet opened.

solar

adj. of, from, or relating to the sun

(1) the **solar** system, (2) a **solar** eclipse

Solar panels have greatly improved not only in performance but also in durability.

flare

v. to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface

synonym : blaze, ignite, light up

(1) **flare** up into a major crisis, (2) the **flare** of a match

The Sun **flared** and caused a sudden brightening in the sky.

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.

warn

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

synonym : alert, caution, admonish

(1) **warn** a reckless driver, (2) **warned** me of the plan

I attempted to **warn** him, but he ignored me.

Jovian

adj. relating to Jupiter or its characteristics

synonym : Jupiter, giant planet

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

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

mar

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

synonym: damage, deface, disfigure

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

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

communicate

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

synonym: convey, share, transmit

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

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

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

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

capable

adj. having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise

synonym: able, competent, proficient

(1) **capable** worker, (2) **capable** leader

She is highly **capable** of handling multiple tasks at once.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being

created

synonym : evolve, progress, advance

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

We must **develop** a new system to streamline our workflow and increase efficiency.

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.

epoch

n. a particular period of time, usually marked by significant events or developments; a division of geologic time

synonym : era, age, period

(1) **epoch-making** event, (2) post-modern **epoch**

The Industrial Revolution is often considered an **epoch** in human history.

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.

sequence

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

synonym : arrangement, succession, series

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

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

artistic

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

synonym : beautiful, aesthetic, creative

(1) an **artistic** photograph, (2) cultural and **artistic** activity
Promising entrepreneurs often have a high **artistic** sensibility.

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.

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.

radiation

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

synonym: dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

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.

uniform

adj. always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

synonym: livery, outfit

(1) at a **uniform** temperature, (2) our school **uniform**

This country has a nationally **uniform** culture.

variation

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

synonym: fluctuation, change, variance

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

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

exaggeration

n. an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is

synonym: hyperbole, overstatement, embellishment

(1) sensational **exaggeration**, (2) minimal **exaggeration**

His story was filled with obvious **exaggerations**.

irregular

adj. not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected

synonym: periodic, rare, inconsistent

(1) **irregular** verbs, (2) **irregular** periods

Driving was difficult on the **irregular** cobblestoned surface.

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.

measurement

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

synonym: calculation, dimensions, size

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

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

satellite

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

synonym : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**

Launching an artificial **satellite** contributed to the technological development of our country.

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.

discovery

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

synonym : finding, uncovering, detection

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

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

stealth

n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

synonym : sneakiness, secrecy, furtiveness

(1) **stealth** technology, (2) **stealth** bomber

The thief moved with **stealth**, careful not to make any noise and alert anyone to his presence.

feat

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

synonym : achievement, accomplishment, exploit

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

It is an incredible **feat** to climb Mount Everest, the highest

mountain in the world.

Planck

n. a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena

(1) **Planck** mass, (2) **Planck** length

Planck's constant is a fundamental constant of nature used in quantum mechanics.

resolution

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

synonym: determination, decision, settlement

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

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

structure

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

synonym: construction, architecture, establishment

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

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

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.

motto

n. a phrase or slogan that expresses a guiding principle or goal

synonym: slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**

The company's **motto** is "Innovation and Service," which is reflected in its products and customer support.

spectacular

adj. striking or impressive to look at or in performance or achievement

synonym: breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

mysterious

adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

synonym: enigmatic, cryptic, puzzling

(1) **mysterious** object, (2) **mysterious** stranger

The **mysterious** disappearance of the ship remains unsolved.

accelerate

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

synonym: speed up, quicken, rev

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

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

expansion

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

synonym: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

expand

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

synonym : extend, grow, boost

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

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

transparent

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

synonym : translucent, evident, diaphanous

(1) a **transparent** lie, (2) **transparent** crystal

The focus of these initiatives is to make the financial system more **transparent**.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

expansive

adj. large or wide in extent or scope; friendly and open and willing to talk

synonym : large, extensive, vast

(1) with an **expansive** spirit, (2) **expansive** ocean views

The company has an **expansive** network of offices and locations around the world.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym : bizarre, creepy, peculiar

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

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

substance

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

synonym : essence, core, material

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

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

foam

n. a mass of small air bubbles formed on the surface of a liquid; a substance that forms a lather when mixed with water

synonym : froth, lather, bubble

(1) the **foam** on a beer, (2) plastics **foam** material

The waves crashed against the rocks, creating white **foam**.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym : numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

survey

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

synonym : study, examination, poll

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

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

locate

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

synonym : discover, find, place

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

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

dot

n. a very small circular mark, especially one that is printed

synonym : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

identify

v. to recognize someone or something and say or prove who or what they are

synonym : determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences
I will introduce you to how to **identify** the leading causes of the malfunction.

estimate

v. to guess or calculate the cost, size, value, etc. of something

synonym: calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh three pounds

We **estimated** the season's total trade deficit at \$50 billion.

plot

n. a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

synonym: scheme, plan, design

(1) **plot** twist, (2) **plot** a revolution

The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

radial

adj. of or relating to rays or the radii of a circle; spreading out from a central point

synonym: concentric, central, spoke-like

(1) **radial** symmetry, (2) in a **radial** direction

The **radial** design of the wheel allows for maximum strength and stability.

void

n. an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force

synonym: emptiness, vacuity, (adjective) null

(1) **void** of expression, (2) **void** contract

The **void** in her heart was filled with the love of her family.

fade

v. to vanish; to fade away; to lose color; to lose freshness

synonym: languish, wither

(1) **fade** away almost completely, (2) **fade** in importance

My memory will **fade**, but my heart will live on.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym : exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

rot

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

synonym : perish, decay, corrode

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

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

fan

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

synonym : lover, devotee, blade

(1) a film **fan**, (2) engine cooling **fan**

I'm a big **fan** of French food.

dimension

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

synonym : extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

spot

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

synonym : dot, mark, place

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

This remote **spot** is rarely visited.

clump

n. a small group of bushes, trees, flowers, people, etc.

synonym : cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

redshift

- n.* a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe

synonym : doppler shift

(1) **redshift** effect, (2) Doppler **redshift**

The **redshift** in the galaxy's light suggested it was moving away from us.

warp

- v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

synonym : twist, distort, deform

(1) **warp** under pressure, (2) become **warped**

The ship's hull was **warped** from years of use in rough seas.

representation

- n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

synonym : delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

extension

- n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

synonym : addition, augment, supplement

(1) time **extension**, (2) telephone **extension**

They are building an **extension** to the house to add more bedrooms.

suppose

v. to think that something is likely to be actual or possible
synonym : guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand
What do you **suppose** the culprit's motive was?

random

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

synonym : incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**
To find drunk drivers, police conduct **random** tests.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym : accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

large-scale

adj. involving many people or things and involving a lot of change or activity

synonym : big, massive, grand

(1) **large-scale** project, (2) **large-scale** agriculture

The company is planning to make a **large-scale** expansion of its factory.

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.

essentially

adv. relating to the essential features or concepts of anything

synonym : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

Essentially, a society is an organism.

principle

n. a fundamental law or truth that explains or controls how something happens or works

synonym: rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

labor

n. productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal

synonym: toil, moil, donkeywork

(1) seasonal **labor**, (2) manual **labor**

In several countries, child **labor** is a serious social problem.

apparently

adv. based on what you have heard or read

synonym: evidently, obviously, supposedly

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

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

ingredient

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

synonym: element, component

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

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

fluctuation

n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

synonym: change, instability, flux

(1) price **fluctuations**, (2) **fluctuation** of water level

Temperature **fluctuations** are often milder in oceanfront areas.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

distribute

v. to give something to a large number of individuals, or to spread or furnish something

synonym: broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym: purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym: move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

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

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

typical

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

synonym : characteristic, usual, distinctive

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

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

shining

adj. giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence

synonym : sparkling, gleaming, radiant

(1) **shining** star, (2) **shining** example

The **shining** sun reflected off the calm ocean water.

invisible

adj. impossible or nearly impossible to see

synonym : hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym : fiber, thread, strand

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

knot

n. a tight interlacing of something such as rope or thread

synonym : tangle, entanglement, snarl

(1) a hard **knot**, (2) a **knot** of people

The boy scout showed us how to tie a **knot** that wouldn't come undone.

cluster

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

synonym : group, aggregation, array

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

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

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.

parsec

n. a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)

(1) distance of a **parsec**, (2) astronomical **parsec** distance

The nearest star to our planet is about 1.3 **parsecs** away.

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.

speck

n. a very small spot, piece, or amount

synonym: blot, dot, mark

(1) a **speck** of dust, (2) **speck** of suspicion

The plane was just a **speck** in the sky.

fluid

n. a substance that can flow and is not solid

synonym: liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym: particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the

electromagnetic spectrum.

neutrino

n. a very small and electrically neutral particle with a very small mass that rarely reacts with other matter

(1) **neutrino** capture, (2) sterile **neutrinos**

This laboratory has a pool consisting of thousands of **neutrino** detectors.

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.

nod

v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

synonym : respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **noded** quietly in response to the question.

framework

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

synonym : structure, scheme, foundation

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

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

occasionally

adv. now and then; sometimes but not often

synonym : periodically, sometimes, from time to time

(1) **occasionally** dine with friends, (2) **occasionally** change the routine

She still **occasionally** writes a short romance novel.

intersect

v. to meet or cross one another

synonym : cross, bisect, cut

(1) **intersect** at a point, (2) railways **intersect** the country
Her multidisciplinary works **intersect** music and picture with writing.

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options

The management must **explore** strategies to increase office security.

intricate

adj. having many different parts and small details that all work together

synonym: complicated, convoluted, complex

(1) **intricate** details, (2) **intricate** lacework

The politician managed to deal with that **intricate** issue.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

contractor

n. a person or company that enters into a contract to provide materials or labor to perform a specific task or service

synonym: builder, declarer, construction company

(1) management **contractor**, (2) major defense **contractor**

The company hired a **contractor** to remodel their office building.

distort

v. to change something's shape, appearance, or sound so that it appears weird or unclear

synonym: fudge, deform, contort

(1) **distort** the facts, (2) **distort** the economy

Economists contend that taxes **distort** consumer behavior in general.

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.

graphic

adj. relating to visual art or involving the use of diagrams or illustrations; very clear and powerful

synonym: illustrative, picturesque, visual

(1) **graphic** design, (2) a **graphic** description of an accident

The **graphic** novel was a masterpiece with stunning illustrations that brought the story to life.

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.

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.

quantum

n. the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics

Big techs are now eager to develop **quantum** computers.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym : machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

tremendous

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

synonym : enormous, giant, immense

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

We had a **tremendous** time yesterday.

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.

astronomical

adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

synonym : huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym: oven, waveguide, radar range

(1) **microwave** radiation, (2) **microwave** popcorn

I heated my leftover food in the **microwave** oven, which tasted just as good as freshly cooked.

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**.

desktop

n. a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities

synonym: computer, workstation, PC

(1) **desktop** software, (2) **desktop** wallpaper

I need to upgrade my **desktop** computer since it's become quite slow.

teeny

adj. extremely small; tiny

synonym: tiny, mini, minuscule

(1) **teeny** bit, (2) so **teeny** tiny

The ring was so **teeny** that it almost looked like a toy.

lump

n. a small, irregularly shaped mass or piece, typically of a soft substance such as coal, flour, or dough

synonym: mass, clump, ball

(1) **lump** in the throat, (2) single **lump** sum

There is a small **lump** on my neck, and I'm concerned about it.

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.

peak

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

synonym: summit, vertex, apex

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

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

gravity

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

synonym: heaviness, attraction, weight

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

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

density

n. the quality of compactness of a substance

synonym: tightness, viscosity

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

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

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.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

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.

imaginary

adj. existing only in someone's mind

synonym: fictional, ideal, fantastical

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

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

explorer

n. a person who travels to places where no one or few people have been before to find out what is there

synonym: adventurer, trailblazer, scout

(1) team of **explorers**, (2) a polar **explorer**

Aboriginal people killed the **explorer** who entered the sacred land for them.

angular

adj. measured by an angle or by the rate of change of an angle; having angles or an angular shape

synonym: jagged, angulate

(1) **angular** mountain ridge, (2) **angular** momentum

Any rotating body has **angular** momentum about its center of mass.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

flip

v. to turn over into a different position quickly; to throw or toss with a light motion

synonym: throw, jump

(1) **flip** over the pork chop, (2) **flip** a coin

He **flipped** when he heard that he had been accepted into the university.

upside

n. the positive aspect or potential of something; the upper side of something

synonym : advantage, benefit, top

(1) have no **upside**, (2) market **upside**

Many people see the **upside** of traveling as an opportunity to experience new cultures and broaden their horizons.

continent

n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

synonym : landmass, (adjective) chaste, (adjective) pure

(1) the inland of a **continent**, (2) **continent** urinary diversion

Flight across the **continent** was a daring adventure in its day.

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.

equivalent

n. having the same value, quality, meaning, purpose, etc.

synonym : equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning

The European Central Bank is Europe's **equivalent** of the Federal Reserve.

linear

adj. of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

synonym : straight, direct, right

(1) **linear** trend, (2) a **linear** equation

People tend to make **linear** predictions.

geology

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

synonym : earth science

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

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

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.

plat

n. a map or a plan that shows the division and layout of land into lots or parcels; a piece of land typically used for building or agricultural purposes

synonym : map, chart, diagram

(1) **plat** book, (2) a former **plat** of farmland

The city planning department keeps detailed **plats** of all the local properties.

modify

v. to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

synonym : adjust, alter, revise

(1) genetically **modify** food, (2) **modify** my behavior

We use adverbs to **modify** verbs and adjectives.

hint

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

synonym : clue, indication, suggestion

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

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

flavor

n. the taste sensation produced by a substance in the mouth

synonym : taste, savor, essence

(1) a delicate **flavor**, (2) **flavor** enhancer

The **flavor** of the coffee was rich and full-bodied.

Session 2: Spelling

- | | |
|---------------------------------|---|
| 1. sl__e a glance | <i>v.</i> to move or cause to move smoothly along a surface without interruption |
| 2. the per____ve of the battle | <i>n.</i> a confident attitude toward something; a particular style of thinking about something |
| 3. ca_____te the distance | <i>v.</i> to judge or find out the amount or number of something by using mathematics |
| 4. fl__e up into a major crisis | <i>v.</i> to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface |
| 5. ad_____e the technology | <i>v.</i> to go or move forward; to develop in a positive way |
| 6. m_r a proper relationship | <i>v.</i> to damage or spoil the appearance or surface of something |
| 7. distance of a pa____c | <i>n.</i> a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers) |
| 8. de_____p software | <i>n.</i> a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities |
| 9. begin to r_t | <i>v.</i> to decay, or cause something to decay, naturally and gradually |

ANSWERS: 1. slide, 2. perspective, 3. calculate, 4. flare, 5. advance, 6. mar, 7. parsec, 8. desktop, 9. rot

- | | |
|---|--|
| 10. railways in_____ct the country | <i>v.</i> to meet or cross one another |
| 11. f__p a coin | <i>v.</i> to turn over into a different position quickly; to throw or toss with a light motion |
| 12. ex___d agricultural output | <i>v.</i> to increase or to make something greater in size, number, or importance |
| 13. driving di_____ce | <i>n.</i> 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 |
| 14. achieve spe_____ar growth | <i>adj.</i> striking or impressive to look at or in performance or achievement |
| 15. a we__d dress | <i>adj.</i> extraordinary, unexpected, or difficult to explain |
| 16. ex___d a lineup | <i>v.</i> to increase or to make something greater in size, number, or importance |
| 17. a gr_____c description of an accident | <i>adj.</i> relating to visual art or involving the use of diagrams or illustrations; very clear and powerful |
| 18. in_____ct with one another | <i>v.</i> to communicate or react with somebody |
| 19. a precise mea_____nt | <i>n.</i> the act or process of finding something's size, quantity, or degree |
| 20. st_____re and function of the brain | <i>n.</i> the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts |
| 21. human ev_____on | <i>n.</i> a gradual process of transformation of living things |

ANSWERS: 10. intersect, 11. flip, 12. expand, 13. distance, 14. spectacular, 15. weird, 16. expand, 17. graphic, 18. interact, 19. measurement, 20. structure, 21. evolution

22. the f__m on a beer *n.* a mass of small air bubbles formed on the surface of a liquid; a substance that forms a lather when mixed with water
23. spe_____ar view *adj.* striking or impressive to look at or in performance or achievement
24. a former p__t of farmland *n.* a map or a plan that shows the division and layout of land into lots or parcels; a piece of land typically used for building or agricultural purposes
25. ess_____ly correct *adv.* relating to the essential features or concepts of anything
26. mo___g ceremony *adj.* causing strong emotions or feelings, especially sadness or sympathy
27. flu_____on of water level *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
28. d_t blot method *n.* a very small circular mark, especially one that is printed
29. business sp___e *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
30. a k__t of people *n.* a tight interlacing of something such as rope or thread
31. in__r the possibility *v.* to form an opinion or conclude that something is true based on existing facts
32. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish

ANSWERS: 22. foam, 23. spectacular, 24. plat, 25. essentially, 26. moving, 27. fluctuation, 28. dot, 29. sphere, 30. knot, 31. infer, 32. ingredient

33. fl___r enhancer *n.* the taste sensation produced by a substance in the mouth
34. the fr_____rk of a house *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
35. mo___n poetry *adj.* of or belonging to the present time or recent times
36. Doppler re_____ft *n.* a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe
37. p__t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
38. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
39. f__e away almost completely *v.* to vanish; to fade away; to lose color; to lose freshness
40. the p__k current in the circuit *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
41. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 33. flavor, 34. framework, 35. modern, 36. redshift, 37. plot, 38. large-scale, 39. fade, 40. peak, 41. develop

42. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
43. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
44. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
45. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
46. p__t a revolution *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
47. im_____ry pregnancy *adj.* existing only in someone's mind
48. the mo__o for safe traffic *n.* a phrase or slogan that expresses a guiding principle or goal
49. st_____h technology *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
50. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
51. ca_____te his credit score *v.* to judge or find out the amount or number of something by using mathematics
52. mys_____us object *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

ANSWERS: 42. large-scale, 43. complicated, 44. cluster, 45. equivalent, 46. plot, 47. imaginary, 48. motto, 49. stealth, 50. substance, 51. calculate, 52. mysterious

53. or____ry annual revenue *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
54. bombs fell at ra____m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
55. binary rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
56. hu____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
57. vo____e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
58. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
59. m_r the reputation *v.* to damage or spoil the appearance or surface of something
60. recent su____y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
61. sp____e of influence *n.* a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity
62. sensational exa_____ion *n.* an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is

ANSWERS: 53. ordinary, 54. random, 55. representation, 56. humming, 57. volume, 58. tremendous, 59. mar, 60. survey, 61. sphere, 62. exaggeration

63. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
64. 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
65. genetically mo____y food *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
66. an ar_____ic photograph *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
67. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
68. gene va_____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
69. an in_____le asset *adj.* impossible or nearly impossible to see
70. in a ra____l direction *adj.* of or relating to rays or the radii of a circle; spreading out from a central point
71. obs_____on instrument *n.* the act or activity of carefully examining or monitoring something or someone
72. a so__r eclipse *adj.* of, from, or relating to the sun
73. pre-mo____n agricultural society *adj.* of or belonging to the present time or recent times

ANSWERS: 63. responsible, 64. instrument, 65. modify, 66. artistic, 67. spot, 68. variation, 69. invisible, 70. radial, 71. observation, 72. solar, 73. modern

74. at a un____m temperature *adj.* always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification
75. a ra____m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
76. Jo____n planet *adj.* relating to Jupiter or its characteristics
77. pr____le cause of a fire *adj.* likely to happen or likely to be true
78. single l__p sum *n.* a small, irregularly shaped mass or piece, typically of a soft substance such as coal, flour, or dough
79. su____e beforehand *v.* to think that something is likely to be actual or possible
80. display res____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
81. con____ty plan *n.* the state or quality of being continuous, uninterrupted, or consistent; the maintenance of a connection, sequence, or pattern
82. gr____c design *adj.* relating to visual art or involving the use of diagrams or illustrations; very clear and powerful
83. ev____on theory *n.* a gradual process of transformation of living things

ANSWERS: 74. uniform, 75. random, 76. Jovian, 77. probable, 78. lump, 79. suppose, 80. resolution, 81. continuity, 82. graphic, 83. evolution

84. 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.
85. st____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
86. with an ex____ve spirit *adj.* large or wide in extent or scope; friendly and open and willing to talk
87. 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
88. the scope of an inv____ion *n.* the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth
89. lo___e a tumor *v.* to specify or determine the exact position of someone or something
90. ph___n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
91. ep__h-making event *n.* a particular period of time, usually marked by significant events or developments; a division of geologic time
92. da____g awareness *adj.* relating to or occurring at the beginning or early stages of something; characterized by the first appearance of light or knowledge; (noun) the beginning or first appearance of something

ANSWERS: 84. hop, 85. stretch, 86. expansive, 87. atom, 88. investigation, 89. locate, 90. photon, 91. epoch, 92. dawning

93. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
94. Jo___n satellites *adj.* relating to Jupiter or its characteristics
95. 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
96. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
97. physical co_____gy *n.* the scientific study of the nature and origin of the universe
98. 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
99. our school un_____m *adj.* always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification
100. a comprehensive su____y *n.* an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

ANSWERS: 93. mechanical, 94. Jovian, 95. spacetime, 96. discovery, 97. cosmology, 98. simulate, 99. uniform, 100. survey

101. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
102. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
103. minimal exa_____ion *n.* an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is
104. as_____le your colleagues *v.* to collect in one place as a single group
105. holy re__cs *n.* an object from a previous era, especially one of historical value
106. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
107. di_____t the economy *v.* to change something's shape, appearance, or sound so that it appears weird or unclear
108. equ_____nt amounts *n.* having the same value, quality, meaning, purpose, etc.
109. 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
110. at p__k hour *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
111. a meteorological sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 101. incredibly, 102. typical, 103. exaggeration, 104. assemble, 105. relic, 106. slide, 107. distort, 108. equivalent, 109. launch, 110. peak, 111. satellite

112. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
113. co___r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
114. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
115. de__e forests *adj.* containing a large number of people or something with little space between them
116. connecting the d_ts *n.* a very small circular mark, especially one that is printed
117. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
118. n_d courteously *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
119. the DNA se_____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
120. su_____e you're right *v.* to think that something is likely to be actual or possible
121. preserve my gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

ANSWERS: 112. intelligent, 113. confer, 114. radiation, 115. dense, 116. dot, 117. rot, 118. nod, 119. sequence, 120. suppose, 121. gravity

122. v__d contract *n.* an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force
123. ex_____e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
124. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
125. Pl___k length *n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena
126. l__p in the throat *n.* a small, irregularly shaped mass or piece, typically of a soft substance such as coal, flour, or dough
127. a n__t of thieves *n.* a structure in which animals lay their eggs or give birth to their young
128. 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
129. 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
130. an imp_____ve array of facts *adj.* arousing admiration due to size, quality, or skill

ANSWERS: 122. void, 123. explore, 124. locate, 125. Planck, 126. lump, 127. nest, 128. trail, 129. launch, 130. impressive

131. co_____um of choice *n.* a confusing and difficult problem or question
132. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
133. te__y bit *adj.* extremely small; tiny
134. laws of qu_____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
135. manual la__r *n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
136. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
137. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
138. have no up___e *n.* the positive aspect or potential of something; the upper side of something
139. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
140. 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
141. ex_____e weather events *adj.* very great in amount or degree

ANSWERS: 131. conundrum, 132. dimension, 133. teeny, 134. quantum, 135. labor, 136. variation, 137. identify, 138. upside, 139. complicated, 140. universe, 141. extreme

142. sterile ne____nos *n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
143. co____c background radiation *adj.* relating to the universe or cosmos; vast or limitless
144. ne____no capture *n.* a very small and electrically neutral particle with a very small mass that rarely reacts with other matter
145. mo____g experience *adj.* causing strong emotions or feelings, especially sadness or sympathy
146. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
147. app____ly unrelated *adv.* based on what you have heard or read
148. so te__y tiny *adj.* extremely small; tiny
149. 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
150. a polar ex____er *n.* a person who travels to places where no one or few people have been before to find out what is there
151. baby with se____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

ANSWERS: 142. neutrino, 143. cosmic, 144. neutrino, 145. moving, 146. scan, 147. apparently, 148. teeny, 149. process, 150. explorer, 151. sensitive

152. high vo___e *n.* the amount of space occupied by an object or substance; the magnitude of sound
153. b__g his fist on a desk *v.* to hit or cause to hit something in a way that makes a loud noise
154. co_____nt urinary diversion *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
155. sh_____g example *adj.* giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
156. st_____h bomber *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
157. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
158. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
159. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
160. occ_____lly change the routine *adv.* now and then; sometimes but not often
161. class obs_____on day *n.* the act or activity of carefully examining or monitoring something or someone

ANSWERS: 152. volume, 153. bang, 154. continent, 155. shining, 156. stealth, 157. telescope, 158. eventually, 159. develop, 160. occasionally, 161. observation

162. local ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
163. 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
164. the attraction of gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
165. fl__d assets *n.* a substance that can flow and is not solid
166. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
167. in_____ct at a point *v.* to meet or cross one another
168. modern co_____gy *n.* the scientific study of the nature and origin of the universe
169. 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
170. ast_____cal observation *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
171. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

ANSWERS: 162. geology, 163. spacetime, 164. gravity, 165. fluid, 166. communicate, 167. intersect, 168. cosmology, 169. background, 170. astronomical, 171. universe

172. w__ned me of the plan
v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future
173. become w__ped
v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
174. ir_____ar periods
adj. not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected
175. re_____ft effect
n. a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe
176. 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
177. f__e in importance
v. to vanish; to fade away; to lose color; to lose freshness

ANSWERS: 172. warn, 173. warp, 174. irregular, 175. redshift, 176. process, 177. fade

178. price flu_____ons *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
179. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
180. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
181. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
182. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
183. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
184. the so__r system *adj.* of, from, or relating to the sun
185. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
186. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
187. Pl___k mass *n.* a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena

ANSWERS: 178. fluctuation, 179. feat, 180. roughly, 181. digital, 182. advance, 183. discovery, 184. solar, 185. tremendous, 186. spot, 187. Planck

188. ro____y speaking *adv.* approximately but not precisely; with a violent manner
189. second co___c velocity *adj.* relating to the universe or cosmos; vast or limitless
190. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
191. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
192. 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
193. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
194. major defense con_____or *n.* a person or company that enters into a contract to provide materials or labor to perform a specific task or service
195. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
196. a li___r equation *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
197. b__g a phone down *v.* to hit or cause to hit something in a way that makes a loud noise
198. ex_____ve ocean views *adj.* large or wide in extent or scope; friendly and open and willing to talk

ANSWERS: 188. roughly, 189. cosmic, 190. represent, 191. estimate, 192. distance, 193. render, 194. contractor, 195. bunch, 196. linear, 197. bang, 198. expansive

199. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
200. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
201. p__t book *n.* a map or a plan that shows the division and layout of land into lots or parcels; a piece of land typically used for building or agricultural purposes
202. tra_____nt crystal *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
203. seasonal la__r *n.* productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
204. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
205. legal fr_____rk *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
206. ir_____ar verbs *adj.* not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected
207. the da_____g of the Internet age *adj.* relating to or occurring at the beginning or early stages of something; characterized by the first appearance of light or knowledge; (noun) the beginning or first appearance of something

ANSWERS: 199. evolve, 200. addition, 201. plat, 202. transparent, 203. labor, 204. humming, 205. framework, 206. irregular, 207. dawning

208. on a qu__t for happiness *n.* a long or challenging search for something
209. bird's n__t *n.* a structure in which animals lay their eggs or give birth to their young
210. cr____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
211. call fo__h demand *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
212. the influence of mec____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
213. time ex____on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line
214. mi____ve radiation *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
215. a delicate fl____r *n.* the taste sensation produced by a substance in the mouth

ANSWERS: 208. quest, 209. nest, 210. creative, 211. forth, 212. mechanical, 213. extension, 214. microwave, 215. flavor

216. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
217. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
218. id____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
219. occ_____lly dine with friends *adv.* now and then; sometimes but not often
220. 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
221. post-modern ep__h *n.* a particular period of time, usually marked by significant events or developments; a division of geologic time
222. im_____ry number *adj.* existing only in someone's mind
223. probabilistic qu____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
224. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
225. astronomical pa____c distance *n.* a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)
226. a preliminary inv_____ion *n.* the act or process of thoroughly examining a crime, problem, statement, etc., to uncover the truth

ANSWERS: 216. typical, 217. weird, 218. identify, 219. occasionally, 220. instrument, 221. epoch, 222. imaginary, 223. quantum, 224. sequence, 225. parsec, 226. investigation

227. 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.
228. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
229. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
230. w__p under pressure *v.* to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something
231. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
232. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
233. elliptic ga____y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
234. a sp__k of dust *n.* a very small spot, piece, or amount

ANSWERS: 227. hop, 228. communicate, 229. perspective, 230. warp, 231. technique, 232. function, 233. galaxy, 234. speck

235. a film f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
236. a GPS sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
237. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
238. 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
239. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
240. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
241. re_____e my thoughts *v.* to change the form or structure of something
242. co___r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
243. management con_____or *n.* a person or company that enters into a contract to provide materials or labor to perform a specific task or service

ANSWERS: 235. fan, 236. satellite, 237. responsible, 238. fraction, 239. creative, 240. principle, 241. reshape, 242. confer, 243. contractor

244. st____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
245. an or____ry school *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
246. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
247. ex_____on project *n.* the process of becoming larger or more extensive, or the result of this process
248. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
249. population de_____y *n.* the quality of compactness of a substance
250. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
251. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
252. become ess_____ly same *adv.* relating to the essential features or concepts of anything
253. ex_____e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
254. the qu__t for truth *n.* a long or challenging search for something

ANSWERS: 244. stretch, 245. ordinary, 246. feat, 247. expansion, 248. structure, 249. density, 250. eventually, 251. addition, 252. essentially, 253. explore, 254. quest

255. app_____ly simple *adv.* based on what you have heard or read
256. electromagnetic ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
257. engine cooling f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
258. telephone ex_____on *n.* a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line
259. mo____y my behavior *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
260. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
261. in_____te details *adj.* having many different parts and small details that all work together
262. 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

ANSWERS: 255. apparently, 256. radiation, 257. fan, 258. extension, 259. modify, 260. telescope, 261. intricate, 262. atom

263. ex_____e sports *adj.* very great in amount or degree
264. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
265. mys_____us stranger *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
266. in_____ct directly with customers *v.* to communicate or react with somebody
267. bureau of ge_____y *n.* a science that deals with the history of the earth as recorded in rocks
268. v__d of expression *n.* an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force
269. 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
270. con_____ty of service *n.* the state or quality of being continuous, uninterrupted, or consistent; the maintenance of a connection, sequence, or pattern
271. plastics f__m material *n.* a mass of small air bubbles formed on the surface of a liquid; a substance that forms a lather when mixed with water
272. 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

ANSWERS: 263. extreme, 264. accelerate, 265. mysterious, 266. interact, 267. geology, 268. void, 269. simulate, 270. continuity, 271. foam, 272. trail

273. h__t of trouble *n.* an indirect suggestion; a slight but appreciable amount of something
274. an explosive su_____ce *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
275. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
276. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
277. in_____te lacework *adj.* having many different parts and small details that all work together
278. vi_____e stars *adj.* capable of being seen; or open to easy view
279. re____r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
280. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
281. di_____t the facts *v.* to change something's shape, appearance, or sound so that it appears weird or unclear
282. f__p over the pork chop *v.* to turn over into a different position quickly; to throw or toss with a light motion
283. a numerator in a fr_____on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

ANSWERS: 273. hint, 274. substance, 275. cluster, 276. zoom, 277. intricate, 278. visible, 279. render, 280. accelerate, 281. distort, 282. flip, 283. fraction

284. the te_____ue applied to construction
285. a bu__h of trees
286. se_____ve documents
287. sales rep_____ion
288. res_____on of a conflict
289. mi_____ve popcorn
290. ph___n energy
- n.* a particular way or art of doing something that needs skill
- n.* a grouping of several similar things which are growing or fastened together
- adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
- n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
- n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
- n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
- n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

ANSWERS: 284. technique, 285. bunch, 286. sensitive, 287. representation, 288. resolution, 289. microwave, 290. photon

291. carbon fi_____nt
n. a thin wire or thread, especially one used to produce light in an electric bulb
292. the inland of a co_____nt
n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
293. the fl__e of a match
v. to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface
294. z__m in on a photo
v. to move along very quickly; (noun) the act of rising upward into the air
295. sp__k of suspicion
n. a very small spot, piece, or amount
296. industrial ex_____on
n. the process of becoming larger or more extensive, or the result of this process
297. secret ing_____nts
n. one of the things used to make something, especially one of the foods used to make a particular dish
298. w__n a reckless driver
v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future
299. get inc_____ly insecure
adv. in a way that is very difficult to believe; exceedingly or extremely
300. ast_____cal numbers
adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
301. fu_____on properly
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 291. filament, 292. continent, 293. flare, 294. zoom, 295. speck, 296. expansion, 297. ingredient, 298. warn, 299. incredibly, 300. astronomical, 301. function

302. an_____r momentum *adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape
303. an_____r mountain ridge *adj.* measured by an angle or by the rate of change of an angle; having angles or an angular shape
304. ca_____e leader *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
305. bring fo__h a beautiful vase *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
306. in__r quality from price *v.* to form an opinion or conclude that something is true based on existing facts
307. re_____e education policy *v.* to change the form or structure of something
308. sh_____g star *adj.* giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence
309. in_____le stars *adj.* impossible or nearly impossible to see
310. chest mea_____nt *n.* the act or process of finding something's size, quantity, or degree
311. imp_____ve performances *adj.* arousing admiration due to size, quality, or skill
312. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information

ANSWERS: 302. angular, 303. angular, 304. capable, 305. forth, 306. infer, 307. reshape, 308. shining, 309. invisible, 310. measurement, 311. impressive, 312. scan

313. a cl__p of trees	<i>n.</i> a small group of bushes, trees, flowers, people, etc.
314. ra___l symmetry	<i>adj.</i> of or relating to rays or the radii of a circle; spreading out from a central point
315. new di_____on	<i>n.</i> a measurable extent of a particular kind, such as width, height, or length
316. nutrient-de__e foods	<i>adj.</i> containing a large number of people or something with little space between them
317. cl__p of bacteria	<i>n.</i> a small group of bushes, trees, flowers, people, etc.
318. pr_____le outcome	<i>adj.</i> likely to happen or likely to be true
319. cultural and ar_____ic activity	<i>adj.</i> of or relating to art or artist; satisfying aesthetic standards and sensibilities
320. fo_____on flight	<i>n.</i> the way something is created naturally or the way it has been arranged
321. dis_____te video content	<i>v.</i> to give something to a large number of individuals, or to spread or furnish something
322. helpful h__ts	<i>n.</i> an indirect suggestion; a slight but appreciable amount of something
323. as_____le a jigsaw puzzle	<i>v.</i> to collect in one place as a single group
324. company mo__o	<i>n.</i> a phrase or slogan that expresses a guiding principle or goal
325. higher pixel de_____y	<i>n.</i> the quality of compactness of a substance
326. di_____l electronic signature	<i>adj.</i> processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 313. clump, 314. radial, 315. dimension, 316. dense, 317. clump, 318. probable, 319. artistic, 320. formation, 321. distribute, 322. hint, 323. assemble, 324. motto, 325. density, 326. digital

327. de____p wallpaper *n.* a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities
328. a tra_____nt lie *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
329. a hard k__t *n.* a tight interlacing of something such as rope or thread
330. market up___e *n.* the positive aspect or potential of something; the upper side of something
331. plenty of fl__ds *n.* a substance that can flow and is not solid
332. a rock fo_____on *n.* the way something is created naturally or the way it has been arranged
333. int_____nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
334. team of ex_____ers *n.* a person who travels to places where no one or few people have been before to find out what is there
335. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
336. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
337. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works
338. n_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

ANSWERS: 327. desktop, 328. transparent, 329. knot, 330. upside, 331. fluid, 332. formation, 333. intelligent, 334. explorer, 335. evolve, 336. visible, 337. principle, 338. nod

339. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
340. 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
341. fi_____nt lamp *n.* a thin wire or thread, especially one used to produce light in an electric bulb
342. li_____r trend *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
343. pose a co_____um *n.* a confusing and difficult problem or question
344. historical re__c *n.* an object from a previous era, especially one of historical value
345. ca_____e worker *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
346. dis_____te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
347. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
348. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something

ANSWERS: 339. represent, 340. background, 341. filament, 342. linear, 343. conundrum, 344. relic, 345. capable, 346. distribute, 347. galaxy, 348. estimate

Session 3: Fill in the Blanks

1. The Sun _____ and caused a sudden brightening in the sky.
 - v. to burn brightly with a sudden, intense burst of flame or light; (noun) a sudden and brief burst of bright flame or light; a sudden and intense burst of radiation from the Sun's surface

2. The _____ of the bees filled the air as she walked through the garden.
 - adj. producing a continuous, low, vibrating sound like that of the bee

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

4. Animal desire and preference are always _____ from their behavior.
 - v. to form an opinion or conclude that something is true based on existing facts

5. This country has a nationally _____ culture.
 - adj. always the same; showing a single form or character in all occurrences; (noun) the special set of clothes worn by members of a particular group as a means of identification

6. She was diagnosed with a _____ buildup in her lungs.
 - n. a substance that can flow and is not solid

7. His story was filled with obvious _____.
 - n. an overstatement of facts or description; the act of making something seem larger, more important, or more significant than it is

ANSWERS: 1. flared, 2. humming, 3. communicate, 4. inferred, 5. uniform, 6. fluid, 7. exaggerations

8. The female birds build a _____ and lay their eggs in May.
n. a structure in which animals lay their eggs or give birth to their young
9. The _____ fireworks display was the highlight of the festival.
adj. striking or impressive to look at or in performance or achievement
10. 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
11. The advent of the Internet completely _____ the manufacturing industry.
v. to change the form or structure of something
12. A person who has been declared incompetent should have legal _____.
n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
13. The _____ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.
n. a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
14. I attempted to _____ him, but he ignored me.
v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future
15. This measurement aims to reduce traffic at _____ periods.
n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

ANSWERS: 8. nest, 9. spectacular, 10. telescope, 11. reshaped, 12. representation, 13. plot, 14. warn, 15. peak

16. Little children tend to have _____ friends.

adj. existing only in someone's mind

17. She is highly _____ of handling multiple tasks at once.

adj. having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise

18. The _____ in her heart was filled with the love of her family.

n. an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force

19. The city planning department keeps detailed _____ of all the local properties.

n. a map or a plan that shows the division and layout of land into lots or parcels; a piece of land typically used for building or agricultural purposes

20. There is a lot of _____ in the colors of flowers in the garden.

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

21. _____ evolved from people's philosophical questions about the natural world.

n. the scientific study of the nature and origin of the universe

22. Her research team made an important _____.

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

23. _____ constant is a fundamental constant of nature used in quantum mechanics.

n. a unit of measurement used in physics to quantify the smallest possible amounts of energy, typically associated with subatomic particles and other quantum phenomena

ANSWERS: 16. imaginary, 17. capable, 18. void, 19. plats, 20. variation, 21. Cosmology, 22. discovery, 23. Planck's

24. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

25. The company is planning to make a _____ expansion of its factory.

adj. involving many people or things and involving a lot of change or activity

26. He was a visiting _____ professor at the University of Tokyo.

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

27. The focus of these initiatives is to make the financial system more _____.

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

28. The _____ of the argument was well-presented.

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

29. 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

30. I heated my leftover food in the _____ oven, which tasted just as good as freshly cooked.

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 24. extreme, 25. large-scale, 26. geology, 27. transparent, 28. substance, 29. background, 30. microwave

31. 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
32. In the hospital, she will remain under constant _____.
- n.* the act or activity of carefully examining or monitoring something or someone
33. Please refrigerate the meat, or it will ____.
- v.* to decay, or cause something to decay, naturally and gradually
34. 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
35. Greed is the primary _____ in the making of criminals.
- n.* one of the things used to make something, especially one of the foods used to make a particular dish
36. The organizational _____ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
37. Their headquarters are in a _____ skyscraper.
- adj.* of or belonging to the present time or recent times
38. She stood on the podium and _____ an audience.
- v.* to examine something hastily, with the eyes or with a machine, to get information

ANSWERS: 31. instrument, 32. observation, 33. rot, 34. simulate, 35. ingredient, 36. structure, 37. modern, 38. scanned

39. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely
40. Launching an artificial _____ contributed to the technological development of our country.
n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
41. The group faced a _____ when they couldn't decide whether to go hiking or to the beach.
n. a confusing and difficult problem or question
42. They study the _____ of the universe.
n. a gradual process of transformation of living things
43. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
n. a notable or impressive achievement, especially one that requires great skill or bravery
44. He couldn't _____ the actual value of the artwork.
v. to judge or find out the amount or number of something by using mathematics
45. 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
46. 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: 39. incredibly, 40. satellite, 41. conundrum, 42. evolution, 43. feat, 44. calculate, 45. fraction, 46. process

47. 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

48. The astronaut felt weightless in space due to the absence of _____.

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

49. People tend to make _____ predictions.

- adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

50. Jockey's superior _____ brought him victory.

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

51. A _____ of grapes hung from the vine.

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

52. Promising entrepreneurs often have a high _____ sensibility.

- adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities

53. 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

54. He should _____ more with his colleagues.

- v.* to communicate or react with somebody

ANSWERS: 47. trail, 48. gravity, 49. linear, 50. technique, 51. cluster, 52. artistic, 53. launch, 54. interact

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

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

56. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.

adj. answerable or accountable for something within one's power, control, or management

57. The _____ sun reflected off the calm ocean water.

adj. giving off or reflecting light; bright, glistening, or gleaming; characterized by impressive accomplishments or excellence

58. A _____ engineer is still in demand in many companies.

adj. operated by a machine, relating to or concerned with machinery or tools

59. We have never before conducted a legitimate _____.

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

60. My computer has been acting _____ recently.

adj. extraordinary, unexpected, or difficult to explain

61. My memory will _____ but my heart will live on.

v. to vanish; to fade away; to lose color; to lose freshness

62. The Industrial Revolution is often considered an _____ in human history.

n. a particular period of time, usually marked by significant events or developments; a division of geologic time

ANSWERS: 55. moving, 56. responsible, 57. shining, 58. mechanical, 59. investigation, 60. weird, 61. fade, 62. epoch

63. We had a _____ time yesterday.

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

64. Flight across the _____ was a daring adventure in its day.

n. one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

65. Sensors convert physical phenomena into _____ signals.

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

66. In _____ private corporations provide healthcare services.

n. the act or process of adding something to something else; the process of adding numbers

67. The _____ design of the wheel allows for maximum strength and stability.

adj. of or relating to rays or the radii of a circle; spreading out from a central point

68. The robot can accurately _____ construction material.

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

69. 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

70. His estate was _____ to his sons.

v. to give something to a large number of individuals, or to spread or furnish something

ANSWERS: 63. tremendous, 64. continent, 65. digital, 66. addition, 67. radial, 68. locate, 69. distance, 70. distributed

71. That _____ shows that people are accepting the tax increase to some extent.
n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
72. I need to upgrade my _____ computer since it's become quite slow.
n. a flat working surface or table that is usually placed on top of a desk, typically used for a computer or other work-related activities
73. This artwork is _____ of her work.
adj. having the usual characteristics or traits of a specific group of things
74. The _____ novel was a masterpiece with stunning illustrations that brought the story to life.
adj. relating to visual art or involving the use of diagrams or illustrations; very clear and powerful
75. The _____ in the galaxy's light suggested it was moving away from us.
n. a concept in physics, particularly in the field of cosmology, that describes how light or other electromagnetic radiation from an object increases in wavelength, or shifts to the red end of the spectrum, as it moves away from an observer, which is a key principle behind the Big Bang Theory and the expansion of the universe
76. The company has an _____ network of offices and locations around the world.
adj. large or wide in extent or scope; friendly and open and willing to talk
77. One bad apple spoils the whole _____.
n. a grouping of several similar things which are growing or fastened together

ANSWERS: 71. survey, 72. desktop, 73. typical, 74. graphic, 75. redshift, 76. expansive, 77. bunch

78. The _____ of the coffee was rich and full-bodied.
n. the taste sensation produced by a substance in the mouth
79. The _____ in the light bulb burned out, and now it's not working.
n. a thin wire or thread, especially one used to produce light in an electric bulb
80. That adventurer traveled in _____ of buried treasure.
n. a long or challenging search for something
81. In several countries, child _____ is a serious social problem.
n. productive work, especially physical work done for wages; the people who do manual or physical work in a country or company for wage; (verb) to work hard or to strive and make an effort to reach a goal
82. She _____ quietly in response to the question.
v. to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
83. 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
84. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
85. If necessary, you can _____ the front seats forward.
v. to move or cause to move smoothly along a surface without interruption
86. Efficiency isn't an essential _____ here; fairness is.
n. a fundamental law or truth that explains or controls how something happens or works

ANSWERS: 78. flavor, 79. filament, 80. quest, 81. labor, 82. nodded, 83. universe, 84. apparently, 85. slide, 86. principle

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

n. the quality of compactness of a substance

88. The _____ disappearance of the ship remains unsolved.

adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

89. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

90. His father's death changed his whole _____ on life.

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

91. I heard the _____ of his boots in the hallway.

n. a small group of bushes, trees, flowers, people, etc.

92. The phenomenon is _____ at optical wavelengths.

adj. impossible or nearly impossible to see

93. They are building an _____ to the house to add more bedrooms.

n. a thing that is added to something to make it longer, larger, or wider; an educational opportunity provided by colleges and universities to people who are not enrolled as regular students; an additional telephone set that is connected to the same telephone line

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

adj. likely to happen or likely to be true

ANSWERS: 87. density, 88. mysterious, 89. photons, 90. perspective, 91. clump, 92. invisible, 93. extension, 94. probable

95. 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
96. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
97. He tried every possible treatment, including chemotherapy and _____ therapy.
n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
98. We _____ the season's total trade deficit at \$50 billion.
v. to guess or calculate the cost, size, value, etc. of something
99. The sudden departure of the team leader disrupted the project's _____.
n. the state or quality of being continuous, uninterrupted, or consistent; the maintenance of a connection, sequence, or pattern
100. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
101. Character _____ is one of the goals of education.
n. the way something is created naturally or the way it has been arranged
102. Temperature _____ are often milder in oceanfront areas.
n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

ANSWERS: 95. stretch, 96. eventually, 97. radiation, 98. estimated, 99. continuity, 100. complicated, 101. formation, 102. fluctuations

103. _____ panels have greatly improved not only in performance but also in durability.

adj. of, from, or relating to the sun

104. The government tried to _____ the commercialization of this development.

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

105. 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.

106. The ring was so _____ that it almost looked like a toy.

adj. extremely small; tiny

107. Any rotating body has _____ momentum about its center of mass.

adj. measured by an angle or by the rate of change of an angle; having angles or an angular shape

108. 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.

109. He _____ when he heard that he had been accepted into the university.

v. to turn over into a different position quickly; to throw or toss with a light motion

110. The European Central Bank is Europe's _____ of the Federal Reserve.

n. having the same value, quality, meaning, purpose, etc.

ANSWERS: 103. Solar, 104. accelerate, 105. hopped, 106. teeny, 107. angular, 108. render, 109. flipped, 110. equivalent

111. What do you _____ the culprit's motive was?
v. to think that something is likely to be actual or possible
112. The _____ moon Europa is believed to have an ocean beneath its icy surface.
adj. relating to Jupiter or its characteristics
113. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
114. I will introduce you to how to _____ the leading causes of the malfunction.
v. to recognize someone or something and say or prove who or what they are
115. The wallpaper had a pattern of pink _____ on a white surface.
n. a very small circular mark, especially one that is printed
116. The thief moved with _____ careful not to make any noise and alert anyone to his presence.
n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
117. Many people see the _____ of traveling as an opportunity to experience new cultures and broaden their horizons.
n. the positive aspect or potential of something; the upper side of something
118. 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
119. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way

ANSWERS: 111. suppose, 112. Jovian, 113. roughly, 114. identify, 115. dots, 116. stealth, 117. upside, 118. galaxy, 119. advance

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

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

121. The management must _____ strategies to increase office security.

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

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

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

123. The plane was just a _____ in the sky.

n. a very small spot, piece, or amount

124. We use adverbs to _____ verbs and adjectives.

v. to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

125. This remote _____ is rarely visited.

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

126. To find drunk drivers, police conduct _____ tests.

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

127. The cost of the new equipment was _____ and beyond the company's budget.

adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

ANSWERS: 120. impressive, 121. explore, 122. volume, 123. speck, 124. modify, 125. spot, 126. random, 127. astronomical

128. Her multidisciplinary works _____ music and picture with writing.

v. to meet or cross one another

129. The teacher is very _____ to children's feelings.

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

130. The ship's hull was _____ from years of use in rough seas.

v. to twist or bend out of shape, especially as a result of being heated; to distort or twist the meaning or sense of something

131. 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

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

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

133. This bronze sword is a _____ of ancient times.

n. an object from a previous era, especially one of historical value

134. The _____ session of the Diet opened.

adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

135. She still _____ writes a short romance novel.

adv. now and then; sometimes but not often

136. Economists contend that taxes _____ consumer behavior in general.

v. to change something's shape, appearance, or sound so that it appears weird or unclear

ANSWERS: 128. intersect, 129. sensitive, 130. warped, 131. bang, 132. sequence, 133. relic, 134. ordinary, 135. occasionally, 136. distort

137. We must _____ a new system to streamline our workflow and increase efficiency.

- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

138. All the supervisor has to do is assign tasks that make his subordinates more _____.

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

139. The leaders of the two countries met to _____ on the issue.

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

140. The scratches on the car _____ its otherwise perfect appearance.

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

141. _____ robots that can cooperate with humans have limited motor output for safety.

- adj.* having the capacity for thought and reason, especially to a high degree

142. 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

143. Overall _____ are approximately 400x200mm.

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

144. Aboriginal people killed the _____ who entered the sacred land for them.

- n.* a person who travels to places where no one or few people have been before to find out what is there

ANSWERS: 137. develop, 138. creative, 139. confer, 140. marred, 141. Intelligent, 142. atom, 143. dimensions, 144. explorer

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

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

146. I pushed _____ with my new project, even though it would take much hard work.

- adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

147. He devised a new analytical _____ to capture the phenomenon.

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

148. Eyeless fish _____ in dark caves.

- v.* to develop gradually, or to cause the development of something or someone gradually

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

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

150. The company's _____ is "Innovation and Service," which is reflected in its products and customer support.

- n.* a phrase or slogan that expresses a guiding principle or goal

151. The president began to _____ an army.

- v.* to collect in one place as a single group

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

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

ANSWERS: 145. resolution, 146. forth, 147. framework, 148. evolved, 149. represent, 150. motto, 151. assemble, 152. measurement

153. He _____ back in time to the soccer game.

v. to move along very quickly; (noun) the act of rising upward into the air

154. This laboratory has a pool consisting of thousands of _____ detectors.

n. a very small and electrically neutral particle with a very small mass that rarely reacts with other matter

155. There is a small _____ on my neck, and I'm concerned about it.

n. a small, irregularly shaped mass or piece, typically of a soft substance such as coal, flour, or dough

156. The waves crashed against the rocks, creating white _____.

n. a mass of small air bubbles formed on the surface of a liquid; a substance that forms a lather when mixed with water

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

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

158. _____ a society is an organism.

adv. relating to the essential features or concepts of anything

159. The company hired a _____ to remodel their office building.

n. a person or company that enters into a contract to provide materials or labor to perform a specific task or service

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

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

ANSWERS: 153. zoomed, 154. neutrino, 155. lump, 156. foam, 157. expansion, 158. Essentially, 159. contractor, 160. Cosmic

161. The entire mountain is covered in _____ rainforest.

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

162. They hope to _____ their business worldwide.

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

163. I'm a big ____ of French food.

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

164. There was no _____ of a problem.

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

165. The _____ of the earth is divided into several layers including the crust, mantle, and core.

n. a round object or geometric shape that is three-dimensional and symmetrical around a central point; a particular aspect or scope of life or activity

166. The brain is an incredibly complex organ that controls the body's _____.

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

167. 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

ANSWERS: 161. dense, 162. expand, 163. fan, 164. hint, 165. sphere, 166. function, 167. spacetime

168. Big techs are now eager to develop _____ computers.

n. the smallest amount or unit of something, especially (electromagnetic) energy

169. The boy scout showed us how to tie a _____ that wouldn't come undone.

n. a tight interlacing of something such as rope or thread

170. My home is easily _____ from the shore.

adj. capable of being seen; or open to easy view

171. The politician managed to deal with that _____ issue.

adj. having many different parts and small details that all work together

172. The nearest star to our planet is about 1.3 _____ away.

n. a unit of measurement of astronomical distance equivalent to 3.26 light-years (= about 5.88 trillion miles or 9.46 trillion kilometers)

173. Driving was difficult on the _____ cobblestoned surface.

adj. not having an even or balanced shape or arrangement; contrary to the usual rule, accepted order, or what is expected

174. The _____ realization of their mistake was evident on their faces.

adj. relating to or occurring at the beginning or early stages of something; characterized by the first appearance of light or knowledge; (noun) the beginning or first appearance of something

ANSWERS: 168. quantum, 169. knot, 170. visible, 171. intricate, 172. parsecs, 173. irregular, 174. dawning