

# Englist.me



## Vocabulary Builder Reference from...

*James Beacham: How we explore unanswered questions in physics | TED Talk*

[https://www.ted.com/talks/james\\_beacham\\_how\\_we\\_explore\\_unanswered\\_questions\\_in\\_physics](https://www.ted.com/talks/james_beacham_how_we_explore_unanswered_questions_in_physics)

### All Words

#### IMPORTANT

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## Session 1: Word List

### physics

*n.* the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

### relate

*v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

*synonym*: connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

### particle

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

*synonym*: atom, grain, bit

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

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

### 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.

## planet

*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

*synonym* : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

## 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.

## 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**.

## puzzle

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

*synonym* : plight, maze, (verb) perplex

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

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

## fiddle

*v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage

*synonym* : tinker, diddle, play

(1) **fiddle** with a PC, (2) **fiddle** away the whole afternoon  
She was able to **fiddle** a free trip to the United States.

## microscope

*n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

*synonym*: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

## electromagnetic

*adj.* of or relating to the magnetism produced by electric charge in motion

(1) **electromagnetic** radiation, (2) **electromagnetic** properties

His hypothesis concerns the role of an **electromagnetic** field in human health.

## mechanics

*n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles

*synonym*: kinematics, dynamics

(1) **mechanics** equation, (2) **mechanics** of the game

He studied **mechanics** in college and now works as an engineer.

## marvel

*n.* someone something that causes feelings of wonder or surprise

*synonym*: wonder, phenomenon, amazement

(1) a **marvel** of beauty, (2) technical **marvel**

The space shuttle is a modern engineering **marvel**.

## 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**.

## elegant

*adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement

*synonym* : refined, sophisticated, graceful

(1) **elegant** design, (2) write **elegant** sentences

She wore an **elegant** evening gown to the gala.

## realm

*n.* a domain of activity, interest, or knowledge

*synonym* : domain, empire, kingdom

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

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

## separate

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

*synonym* : disunite, isolate, ramify

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

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

## mathematics

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

*synonym* : arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

## disaster

*n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

*synonym* : catastrophe, calamity, tragedy

(1) global **disaster**, (2) **disaster** recovery

The **disaster** response team worked around the clock to aid those affected by the earthquake.

## skeptical

*adj.* doubting that something is accurate or useful

*synonym* : doubtful, distrustful, suspicious

(1) a **skeptical** attitude, (2) **skeptical** scientists

His religious and philosophical beliefs were utterly **skeptical**.

## supreme

*adj.* highest in rank, level, or importance

*synonym*: foremost, highest, greatest

(1) the **supreme** commander, (2) justice of the **supreme** court

The **supreme** pleasure of life is the conviction that we are loved.

## unsatisfying

*adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.

*synonym*: disappointing, dissatisfying, subpar

(1) **unsatisfying** labor, (2) **unsatisfying** reality

The meal was **unsatisfying** and left her feeling hungry an hour later.

## smack

*v.* to hit something or someone with force, often making a loud noise; to deliver a sharp criticism or rebuke

*synonym*: hit, slap, strike

(1) **smack** on the lips, (2) **smack** his knee

The baseball player **smacked** the ball out of the park, securing a home run.

## 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.

## intriguing

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

*synonym*: fascinating, captivating, arresting

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

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

- 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.
- inkling** *n.* a slight or vague understanding or idea of something; a hint or intimation of something, often something that is not fully understood or realized  
*synonym*: hint, suggestion, clue  
(1) first **inkling**, (2) **inkling** of hope  
The news gave us an **inkling** of what was going on in the world.
- extraordinary** *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual  
*synonym*: exceptional, noteworthy, astonishing  
(1) **extraordinary** ability, (2) **extraordinary** weather  
He narrated the **extraordinary** story of his adventure.
- hunt** *v.* to go after and try to catch wild animals to kill them for food, sport, or profit  
*synonym*: chase, pursuit, quest  
(1) **hunt** a job, (2) **hunt** after knowledge  
Hounds **hunt** their prey by using their keen scent.
- physicist** *n.* a scientist who specializes in the field of physics  
(1) talented **physicist**, (2) theoretical **physicist**  
Einstein was an outstanding and famous **physicist** of the 20th century.
- collide** *v.* to hit something violently when moving  
*synonym*: clash, slam, contradict  
(1) **collide** head-on, (2) **collide** in midair  
The interests of the two countries **collide**.

## experiment

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

*synonym*: experimentation, investigation

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

His **experiments** showed highly positive results.

## mount

*v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

*synonym*: climb, increase, get on

(1) **mount** a hill, (2) **mount** a counterattack

They **mounted** pictures on the paper in preparation for the birthday card.

## tunnel

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

*synonym*: passageway, underground passage

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

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

## bury

*v.* to place a dead body in the ground, grave, or tomb

*synonym*: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

## underground

*adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

*synonym*: subterranean, subsurface, confidential

(1) water flowing **underground**, (2) **underground** activist

Having **underground** parking has been very beneficial throughout the winter.

## semiconductor

*n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

*synonym* : chip, wafer

(1) **semiconductor** industry, (2) **semiconductor** device

The company develops and sells **semiconductor** memory for use in computers and servers.

## magnet

*n.* an object or substance that can attract certain materials, such as iron or steel

*synonym* : magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

## 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.

## proton

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

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

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

## slam

*v.* to shut a door or window noisily; to strike something violently or noisily

*synonym* : bang, crash, shut

(1) **slam** the door, (2) **slam** the book against a wall

She **slammed** the door shut, angry at the person on the other side.



## debris

*n.* broken or torn fragments of something

*synonym* : remains, remnants, garbage

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

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

## collision

*n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict

*synonym* : crash, impact, smash

(1) **collision** detection, (2) come into **collision** with my friend

The **collision** of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.

## undiscovered

*adj.* not yet found or known

*synonym* : unknown, hidden, unexplored

(1) **undiscovered** territory, (2) **undiscovered** potential

The jungle is full of **undiscovered** species waiting to be found.

## fundamental

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

*synonym* : basic, essential, entire

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

Human behavior has **fundamental** characteristics.

## construct

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

*synonym* : build, assemble, create

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

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

## globe

*n.* the earth or world, mainly used to emphasize its vastness

*synonym* : Earth, world, sphere

(1) terrestrial **globe**, (2) around the **globe**

His final goal is to sail around the **globe**.

### **tirelessly**

*adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort

*synonym*: inexhaustibly, indefatigably, unceasingly

(1) dedicated **tirelessly**, (2) **tirelessly** help out

She worked **tirelessly** for hours to finish her project on time.

### **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.

### **mass**

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

*synonym*: abundance, crowd, mob

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

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

### **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**.

### **quadrillion**

*n.* a number equivalent to a thousand raised to the power of five, or 10 to the 15th power; colloquially used to indicate an extremely large or theoretical number

*synonym*: one thousand million million million

(1) **quadrillion** atoms, (2) **quadrillion** dollars

The energy output of the sun is measured in **quadrillions** of watts.

## bump

*v.* to hit or knock against something hard, often with a dull sound; to meet with by accident

*synonym*: collide, hit, jolt

(1) **bump** against a wall, (2) **bump** up prices

She accidentally **bumped** into him in the crowded room.

## slight

*adj.* very small in degree or amount

*synonym*: feeble, nuanced, subtle

(1) feel a **slight** concern, (2) **slight** increase

We made **slight** modifications to reflect the views of both sides.

## deviate

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

*synonym*: stray, diverge, veer

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

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

## 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.

## boson

*n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave

*synonym*: photon, gluon, particle

(1) weak **boson**, (2) Higgs **boson**

The search for new **boson** particles is one of the most exciting areas of modern physics.

## confirmation

*n.* a statement, often written, that shows that something is true, correct, or definite

*synonym*: validation, verification, affirmation

(1) **confirmation** of purchase, (2) **confirmation** bias

The **confirmation** of his appointment as CEO was met with mixed reactions.

## 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.

## standing

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

*synonym*: upright, vertical, (noun) position

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

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

## colleague

*n.* one of a group of a coworker, especially in a profession or a business

*synonym*: coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

## frank

*adj.* honest and sincere; open and candid in expression

*synonym*: candid, direct, freehearted

(1) **frank** and open discussion, (2) make a **frank** apology

Full involvement means **frank** and prompt responses.

## breath

*n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

*synonym*: air, puff, whiff

(1) hold your **breath**, (2) **breath** of wind  
He bated his **breath** when talking about this affair.

## fingernail

*n.* the hard, slightly curved part that covers the outer tip of each finger

*synonym* : claw, paw

(1) **fingernail** biting, (2) fake **fingernail**  
The car body scraped off with a **fingernail**.

## applause

*n.* a demonstration of approval or praise by clapping the hands together

*synonym* : clapping, cheering, acclaim

(1) round of **applause**, (2) earn **applause**  
The **applause** burst from the audience.

## champagne

*n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere

*synonym* : sparkling wine, prosecco, cava

(1) **champagne** toast, (2) **champagne** celebration  
They opened a bottle of **champagne** to celebrate their success.

## celebrate

*v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity

*synonym* : praise, glorify, honor

(1) **celebrate** his election, (2) **celebrate** Christmas  
He **celebrated** the 10th anniversary of his tenure.

## milestone

*n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances

*synonym* : landmark, turning point, touchstone

(1) key **milestone**, (2) **milestone** event  
Reaching the **milestone** of 1000 subscribers on her SNS channel was a major achievement for her.

## brand

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

*synonym*: trademark, label, symbol

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

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

## eyebrow

*n.* the hair arc over each eye in humans

*synonym*: brow, supercilium

(1) raise her **eyebrows**, (2) **eyebrow** cosmetics

She raised an inquiring **eyebrow** towards me.

## indicate

*v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

*synonym*: hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

## argue

*v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

*synonym*: debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for dinner.

## poke

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

*synonym*: prod, jab, push

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

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

## prod

*v.* to poke or jab with a pointed object, often to urge or encourage movement or action; to provoke or stimulate someone to take action or respond in a particular way

*synonym* : poke, jab, nudge

(1) **prod** him into action, (2) **prod** him with a stick

She used a stick to **prod** the fire and make it burn brighter.

## ruthless

*adj.* lacking in pity or compassion; willing to do whatever it takes to achieve their goals, regardless of the consequences for others

*synonym* : heartless, pitiless, merciless

(1) show **ruthless** behavior, (2) **ruthless** brutality

The dictator was known for his **ruthless** tactics and had no qualms about using violence to maintain power.

## experimental

*adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

*synonym* : empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

## stick

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

*synonym* : pierce, adhere, stay

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

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

## withstand

*v.* to resist the effect or impact of something

*synonym* : endure, bear, resist

(1) **withstand** pressure, (2) **withstand** temptation

The new phone is waterproof and can **withstand** being dropped in water.

## scrutiny

*n.* careful and detailed examination

*synonym* : examination, analysis, inspection

(1) additional **scrutiny**, (2) public **scrutiny**

All products produced by our factory undergo rigorous **scrutiny**.

### feverish

*adj.* having or showing symptoms of a high temperature, such as sweating and shivering; characterized by or showing strong feelings of excitement or energy

*synonym* : heated, hot, agitated

(1) feel **feverish**, (2) at a **feverish** pitch

She had a **feverish** look in her eyes as she struggled with illness.

### bucket

*n.* an open container with a handle made of metal or plastic, often used for carrying liquids

*synonym* : pail, tub, can

(1) **bucket** list, (2) **bucket** of golf balls

She filled a **bucket** with water and carried it back to the house.

### diagram

*n.* a simplified illustration of the appearance, structure, or workings of something

*synonym* : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

### definitive

*adj.* serving to provide a final solution or to end a situation; final and not able to be changed

*synonym* : conclusive, final, decisive

(1) **definitive** answer, (2) a **definitive** edition

The study provided **definitive** proof of the effectiveness of the new drug.

### unexpected

*adj.* not anticipated or regarded as likely to happen

*synonym* : surprising, unanticipated, incredible

(1) an **unexpected** visitor, (2) some **unexpected** events

The **unexpected** rainstorm caused the collapse of the corral.



## consist

*v.* to be composed or made up of

*synonym*: lie in, comprise, exist

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

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

## 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.

## automobile

*n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods

*synonym*: car, vehicle, motorcar

(1) driverless **automobile**, (2) **automobile** insurance

The **automobile** industry is a major contributor to air pollution in cities.

## 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.

## split

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

*synonym*: break, divide, break apart

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

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

## detect

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

*synonym*: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders  
The security camera has **detected** four intruders.

## explode

*v.* to burst or break open violently and noisily; to cause something to burst or break open

*synonym* : detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

## skate

*n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

*synonym* : blade, runner, sled

(1) **skate** park, (2) roller **skate**

She has been practicing an ice **skate** routine for months

## mythical

*adj.* based on or related to myths, legends, or folklore; existing only in tales or in the imagination

*synonym* : mythological, fictitious, legendary

(1) **mythical** heroes, (2) **mythical** world

Many cultures have their **mythical** creatures and legends.

## crazy

*adj.* stupid or not sensible; very angry

*synonym* : insane, absurd, bizarre

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

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

## strength

*n.* the quality or state of being physically, or sometimes mentally, strong

*synonym* : resilience, power, muscles

(1) **strength** of the economy, (2) muscular **strength**

Health and **strength** are, above all, gold.

## minus

*adj.* subtracting or taking away; having a value less than zero

*synonym* : without, lacking, negative

(1) **minus** sign, (2) **minus** temperature

The recipe calls for four cups of flour **minus** one tablespoon.

## decimal

*adj.* based on or counted in the number 10

*synonym*: base-10, denary, ten-based

(1) **decimal** system, (2) an infinite **decimal**

The **decimal** point separates the whole number from the fractional part.

## achievement

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

*synonym*: accomplishment, attainment, triumph

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

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

## humankind

*n.* the whole of the living human inhabitants of the earth

*synonym*: humanity, human race, society

(1) **humankind** as a species, (2) history of **humankind**

On the geological time scale, **humankind** has existed for a brief moment.

## absent

*adj.* not present in a particular place at a particular time

*synonym*: missing, away, not present

(1) **absent-minded**, (2) **absent** without leave

He was **absent** from the meeting and missed all the important updates.

## theoretical

*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

*synonym*: conceptual, conjectural, ideal

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

Absolute zero is the lowest **theoretical** temperature.

## propose

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

*synonym*: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes  
I want to **propose** a toast in honor of our longstanding relationship.

## 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.

## controversial

*adj.* causing a lot of hot public discussion and dispute

*synonym*: contentious, disputed, questionable

(1) **controversial** book, (2) **controversial** policy

The issue of the death penalty is highly **controversial**.

## excitation

*n.* the state of being excited or stimulated; the process of producing an excited or stimulated state in something

*synonym*: stimulation, arousal, provocation

(1) the crowd's **excitation**, (2) neuronal **excitation**

The **excitation** energy of the electron determines the wavelength of light emitted during fluorescence.

## wobble

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

*synonym*: sway, rock, totter

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

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

## assume

*v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

*synonym*: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

## abstract

*adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence

*synonym* : conceptual, theoretical, ideational

(1) an **abstract** noun, (2) **abstract** science

The invention of the camera triggered the development of **abstract** painting.

## concept

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

*synonym* : idea, notion, vision

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

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

## leak

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

*synonym* : outflow, divulge, disclose

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

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

## spatial

*adj.* of or relating space and the position, area, and size of things

*synonym* : dimensional, geographical

(1) **spatial** ability, (2) **spatial** distribution

He carefully determined the **spatial** relations of every piece of the stage set.

## 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.

## slice

*n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

*synonym* : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

The children complained because one **slice** of cake was slightly larger than the other.

## 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.

## graviton

*n.* a hypothetical elementary particle in theoretical physics that is believed to mediate the force of gravity

(1) **graviton** particle, (2) detect **gravitons**

Quantum physicists are studying the hypothetical interactions of **gravitons** with other particles.

## fiction

*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

*synonym*: fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

## reverb

*n.* an audio effect that produces a sound that is reflected off surfaces in an enclosed space, creating a sense of space or ambiance; the natural echoing or reverberation of sound in a large or open space

*synonym*: echo, sound reflection

(1) **reverb** effect, (2) **reverb** chamber

The singer's voice had a natural **reverb** that sounded beautiful in the acoustically-designed church.

## snap

*v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

*synonym*: break, crack, fracture

(1) **snap** a whip, (2) **snap** judgment

She **snapped** a quick picture of the beautiful sunset before it

disappeared.

## spit

*v.* to eject saliva or other liquid from the mouth

*synonym*: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

## hypothesis

*n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

*synonym*: assumption, conjecture, theory

(1) test my **hypothesis**, (2) a bold **hypothesis**

This evidence supports the big-bang **hypothesis**.

## possibility

*n.* a chance that something may happen or be true

*synonym*: chance, prospect, likelihood

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

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

## mystery

*n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

*synonym*: enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

## geek

*n.* a person who is highly interested and knowledgeable about a particular subject or field, often to the point of being obsessed

*synonym*: nerd, dork, enthusiast

(1) airplane **geek**, (2) **geek** enthusiast

He was a computer **geek** and spent all his free time coding.

## rewrite

v. to write something such as a book or speech again in a different way, usually to improve it or add new information

*synonym* : revise, edit, rework

(1) **rewrite** a composition, (2) **rewrite** a world record

I need to **rewrite** most of the essay with feedback from my teacher.

## crisp

*adj.* hard, dry, and brittle enough to break easily; cool, fresh, and invigorating

*synonym* : breakable, brittle, flaky

(1) the **crisp** air of winter, (2) **crisp** manner

Every day he wears a **crisp** white shirt to the office.

## disappointment

*n.* the feeling of sadness, frustration, or dissatisfaction that arises when something does not live up to one's expectations or hopes

*synonym* : letdown, frustration, discouragement

(1) **disappointment** in the result, (2) **disappointment** with the service

The cancellation of the concert was a huge **disappointment** for the fans.

## 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.

## coverage

*n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

*synonym* : reportage, scope, range

(1) full- **coverage** insurance, (2) contractual **coverage**

The scandal received widespread media **coverage**.

## decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options



*synonym* : choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

## sham

*n.* something that is not as good or true as it seems to be and is intended to deceive people; a person who pretends to be something they are not

*synonym* : bogus, counterfeit, fraudulent

(1) a **sham** battle, (2) turn out to be all **sham**

The data he prepared was completely **sham**.

## cartographer

*v.* a person who creates or produces maps, typically by gathering or analyzing geographic data and using specialized software or tools

*synonym* : mapmaker

(1) expert **cartographer**, (2) **cartographer's** tool

A **cartographer's** job requires a strong eye for detail and a deep understanding of geographic principles.

## distant

*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

*synonym* : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

## alien

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

*synonym* : foreigner, unfamiliar, unknown

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

**Alien** species have drastically altered the ecosystem in this area.

## immediately

*adv.* now or without delay

*synonym* : directly, instantly, promptly

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

### **immediately**

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

### **orbit**

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

*synonym* : path, course, trajectory

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

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

### **obvious**

*adj.* easy to see, discover or understand

*synonym* : apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

### **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.

### **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.

### **absolutely**

*adv.* without restriction or limitation; completely or utterly

*synonym* : completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

### **territory**

*n.* an area under the control of a ruler or state

*synonym* :

domain, region, realm

(1) acquire **territory**, (2) **territory** in charge

They incorporated the conquered **territory** into their nation.

## sift

*v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

*synonym*: filter, go through, sieve

(1) **sift** the candidates, (2) **sift** sand

The search engine helps **sift** information.

## sand

*n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

*synonym*: grit, dust, powder

(1) **sand** dunes, (2) **sand** castle

The **sand** on the beach was warm and golden.

## 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.

## peek

*n.* a quick or furtive look; (verb) to take a quick and secret look at something

*synonym*: glimpse, look, glance

(1) sneak **peek**, (2) **peek** at others' misfortune

She took a quick **peek** inside the box before closing it again.

## drill

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

*synonym*: exercise, routine, training

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

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

## rev

*n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

*synonym* : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

## humanity

*n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.

*synonym* : humankind, society, human race

(1) **humanity** at large, (2) mass of **humanity**

They donated large sums of money for the development of **humanity**.

## underway

*adj.* having started and currently in progress

*synonym* : afoot, ongoing, in motion

(1) just getting **underway**, (2) campaign now **underway**

This project has been **underway** for several years.

## rethink

*v.* to consider again a plan, idea, etc., especially to change it

*synonym* : reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

## intelligence

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

*synonym* : brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**  
In terms of **intelligence**, he was head and shoulders above his classmates.

## 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.

## sophisticated

*adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

*synonym*: refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

## algorithm

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

*synonym*: logic, method, rule

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

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

## ultimate

*adj.* furthest or highest in degree or order

*synonym*: highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

## destine

*v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome

*synonym*: ordain, doom, predestine

(1) **destine** us to meet again, (2) be **destined** to become a

great artist

Some people believe that we are all **destined** for greatness.

## unanswered

*adj.* not responded to or explained

*synonym* : ignored, unrequited, undecided

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

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

## foresee

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

*synonym* : predict, anticipate, forecast

(1) **foresee** the consequences, (2) **foresee** challenges

I **foresee** a problem arising if we don't address this issue now.

## lifetime

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

*synonym* : lifespan, duration

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

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

## fascinating

*adj.* extremely interesting

*synonym* : alluring, intriguing, captivating

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

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

## determinant

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

*synonym* : cause, factor, element

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

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

## flaw

*n.* a fault, mistake, or weakness that causes something not to be perfect

*synonym*: defect, fault, imperfection

(1) a minor **flaw**, (2) the **flaw** in the legislation

Even the slightest design **flaw** in an aircraft can lead to a fatal accident.

## encourage

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

*synonym*: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

## 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.

## novel

*n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

*synonym*: fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

## Session 2: Spelling

1. a numerator in a fr\_\_\_\_\_on  
*n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
2. fire st\_\_k  
*v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
3. an ab\_\_\_\_\_ct noun  
*adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
4. re\_\_\_\_\_e a composition  
*v.* to write something such as a book or speech again in a different way, usually to improve it or add new information
5. con\_\_\_\_\_ial book  
*adj.* causing a lot of hot public discussion and dispute
6. st\_\_\_\_\_ng water  
*adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
7. p\_\_d him into action  
*v.* to poke or jab with a pointed object, often to urge or encourage movement or action; to provoke or stimulate someone to take action or respond in a particular way
8. surgical ins\_\_\_\_\_nts  
*n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

ANSWERS: 1. fraction, 2. stick, 3. abstract, 4. rewrite, 5. controversial, 6. standing, 7. prod, 8. instrument



9. charged pa\_\_\_\_le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
10. a ma\_\_\_\_l of beauty *n.* someone something that causes feelings of wonder or surprise
11. al\_\_\_\_hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
12. bu\_\_\_\_t of golf balls *n.* an open container with a handle made of metal or plastic, often used for carrying liquids
13. critical m\_\_\_\_s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
14. g\_\_k enthusiast *n.* a person who is highly interested and knowledgeable about a particular subject or field, often to the point of being obsessed
15. acc\_\_\_\_te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
16. ex\_\_\_\_e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open
17. sm\_\_k his knee *v.* to hit something or someone with force, often making a loud noise; to deliver a sharp criticism or rebuke
18. cr\_\_y about cars and racing *adj.* stupid or not sensible; very angry

ANSWERS: 9. particle, 10. marvel, 11. algorithm, 12. bucket, 13. mass, 14. geek, 15. accelerate, 16. explode, 17. smack, 18. crazy

19. s\_\_p a whip  
v. to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
20. car\_\_\_\_\_her's tool  
v. a person who creates or produces maps, typically by gathering or analyzing geographic data and using specialized software or tools
21. ele\_\_\_\_\_tic radiation  
adj. of or relating to the magnetism produced by electric charge in motion
22. no\_\_l effect  
n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
23. the\_\_\_\_\_al physicist  
adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
24. ru\_\_\_\_\_ss brutality  
adj. lacking in pity or compassion; willing to do whatever it takes to achieve their goals, regardless of the consequences for others
25. wi\_\_\_\_\_nd pressure  
v. to resist the effect or impact of something
26. my\_\_\_\_\_al heroes  
adj. based on or related to myths, legends, or folklore; existing only in tales or in the imagination
27. nuclear ph\_\_\_\_\_s  
n. the science of matter and energy and their interactions
28. sp\_\_t a reward equally  
v. to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 19. snap, 20. cartographer, 21. electromagnetic, 22. novel, 23. theoretical, 24. ruthless, 25. withstand, 26. mythical, 27. physics, 28. split

29. co\_\_\_\_\_ct a 3D image      *v.* to build or create something; to assemble or combine different parts to form something whole
30. mic\_\_\_\_\_pe slide      *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
31. ext\_\_\_\_\_ary weather      *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
32. a we\_\_d dress      *adj.* extraordinary, unexpected, or difficult to explain
33. re\_\_\_\_\_k a marketing plan      *v.* to consider again a plan, idea, etc., especially to change it
34. de\_\_\_\_\_e from the norm      *v.* to depart from an established course or plan; to change direction or take a different route or approach
35. mat\_\_\_\_\_cs competition      *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
36. b\_\_p up prices      *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
37. a remarkable ach\_\_\_\_\_nt      *n.* a thing that someone has accomplished, primarily through their effort and ability
38. as\_\_\_e a lousy attitude to his boss      *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
39. co\_\_\_\_\_e in midair      *v.* to hit something violently when moving

ANSWERS: 29. construct, 30. microscope, 31. extraordinary, 32. weird, 33. rethink, 34. deviate, 35. mathematics, 36. bump, 37. achievement, 38. assume, 39. collide

40. s\_\_d dunes *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
41. 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
42. beyond the re\_\_m of possibility *n.* a domain of activity, interest, or knowledge
43. fi\_\_\_e away the whole afternoon *v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
44. the crowd's exc\_\_\_\_\_on *n.* the state of being excited or stimulated; the process of producing an excited or stimulated state in something
45. space de\_\_\_s *n.* broken or torn fragments of something
46. tu\_\_\_l disease *n.* an underground or underwater passage, typically for trains or cars
47. driverless aut\_\_\_\_\_le *n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods
48. ma\_\_\_t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
49. li\_\_\_\_\_me ban from the sport *n.* the duration of someone's life or something's existence;

ANSWERS: 40. sand, 41. fraction, 42. realm, 43. fiddle, 44. excitement, 45. debris, 46. tunnel, 47. automobile, 48. magnet, 49. lifetime

50. the RSA al\_\_\_\_\_hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
51. ex\_\_\_\_d agricultural output *v.* to increase or to make something greater in size, number, or importance
52. former co\_\_\_\_\_ue *n.* one of a group of a coworker, especially in a profession or a business
53. co\_\_\_\_\_e head-on *v.* to hit something violently when moving
54. al\_\_n fungi *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
55. de\_\_\_\_\_l system *adj.* based on or counted in the number 10
56. fi\_\_\_\_e with a PC *v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
57. obs\_\_\_\_\_on instrument *n.* the act or activity of carefully examining or monitoring something or someone
58. the cr\_\_p air of winter *adj.* hard, dry, and brittle enough to break easily; cool, fresh, and invigorating
59. talented ph\_\_\_\_\_st *n.* a scientist who specializes in the field of physics
60. make a fr\_\_k apology *adj.* honest and sincere; open and candid in expression
61. the ul\_\_\_\_\_te luxury *adj.* furthest or highest in degree or order

ANSWERS: 50. algorithm, 51. expand, 52. colleague, 53. collide, 54. alien, 55. decimal, 56. fiddle, 57. observation, 58. crisp, 59. physicist, 60. frank, 61. ultimate

62. wo\_\_\_e chair *v.* to move or shake unsteadily from side to side or up and down
63. cr\_\_p manner *adj.* hard, dry, and brittle enough to break easily; cool, fresh, and invigorating
64. my\_\_\_\_\_al world *adj.* based on or related to myths, legends, or folklore; existing only in tales or in the imagination
65. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
66. the characters that re\_\_\_\_\_nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
67. hu\_\_\_\_\_ty at large *n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
68. te\_\_\_\_\_ry in charge *n.* an area under the control of a ruler or state
69. pos\_\_\_\_\_ty of a major earthquake *n.* a chance that something may happen or be true
70. s\_\_m the book against a wall *v.* to shut a door or window noisily; to strike something violently or noisily
71. the su\_\_\_\_\_e commander *adj.* highest in rank, level, or importance
72. an int\_\_\_\_\_nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
73. ex\_\_\_d a lineup *v.* to increase or to make something greater in size, number, or importance

ANSWERS: 62. wobble, 63. crisp, 64. mythical, 65. determinant, 66. represent, 67. humanity, 68. territory, 69. possibility, 70. slam, 71. supreme, 72. intelligence, 73. expand



85. pr\_\_\_\_e the amendment      *v.* to make a proposal, declare a plan for something
86. some une\_\_\_\_\_ed events      *adj.* not anticipated or regarded as likely to happen
87. h\_\_t a job      *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
88. de\_\_\_\_t a bad event      *v.* to find or recognize something, especially something difficult to see, hear, etc.
89. ce\_\_\_\_\_te Christmas      *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
90. crossword pu\_\_\_e      *n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; *(verb)* to cause someone to feel confused because of something difficult to understand
91. Higgs bo\_\_n      *n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
92. s\_\_m the door      *v.* to shut a door or window noisily; to strike something violently or noisily
93. wi\_\_\_\_\_nd temptation      *v.* to resist the effect or impact of something
94. a di\_\_\_\_t memory      *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 85. propose, 86. unexpected, 87. hunt, 88. detect, 89. celebrate, 90. puzzle, 91. boson, 92. slam, 93. withstand, 94. distant



95. series of exp\_\_\_\_\_nts  
*n.* the scientific test conducted to observe what happens and gain new knowledge
96. non-fi\_\_\_\_\_n bestseller  
*n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
97. 3D di\_\_\_\_\_m  
*n.* a simplified illustration of the appearance, structure, or workings of something
98. mathematical pu\_\_\_e  
*n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand
99. a def\_\_\_\_\_ve edition  
*adj.* serving to provide a final solution or to end a situation; final and not able to be changed
100. dedicated tir\_\_\_\_\_ly  
*adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort
101. sp\_\_\_\_\_l distribution  
*adj.* of or relating space and the position, area, and size of things
102. co\_\_\_\_\_ct a dam  
*v.* to build or create something; to assemble or combine different parts to form something whole
103. laws of ph\_\_\_\_\_s  
*n.* the science of matter and energy and their interactions
104. an une\_\_\_\_\_ed visitor  
*adj.* not anticipated or regarded as likely to happen

ANSWERS: 95. experiment, 96. fiction, 97. diagram, 98. puzzle, 99. definitive, 100. tirelessly, 101. spatial, 102. construct, 103. physics, 104. unexpected

105. mi\_\_s temperature *adj.* subtracting or taking away; having a value less than zero
106. br\_\_\_h of wind *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
107. in\_\_\_\_\_te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
108. a det\_\_\_\_\_nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
109. his conclusion was ob\_\_\_\_s *adj.* easy to see, discover or understand
110. his social st\_\_\_\_\_ng *adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
111. en\_\_\_\_\_ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
112. equ\_\_\_\_\_nt amounts *n.* having the same value, quality, meaning, purpose, etc.
113. ar\_\_e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
114. pa\_\_\_\_\_le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 105. minus, 106. breath, 107. indicate, 108. determinant, 109. obvious, 110. standing, 111. encourage, 112. equivalent, 113. argue, 114. particle

115. collaborate with co\_\_\_\_\_ues *n.* one of a group of a coworker, especially in a profession or a business
116. dis\_\_\_\_\_ent in the result *n.* the feeling of sadness, frustration, or dissatisfaction that arises when something does not live up to one's expectations or hopes
117. an in\_\_\_\_\_le asset *adj.* impossible or nearly impossible to see
118. unsolved my\_\_\_\_\_y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
119. co\_\_\_\_\_t only in knowing facts *v.* to be composed or made up of
120. r\_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
121. imm\_\_\_\_\_ly recall a product *adv.* now or without delay
122. stuff of science fi\_\_\_\_\_n *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
123. weak bo\_\_n *n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave

ANSWERS: 115. colleague, 116. disappointment, 117. invisible, 118. mystery, 119. consist, 120. rev, 121. immediately, 122. fiction, 123. boson

124. exp\_\_\_\_\_nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
125. resident al\_\_ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
126. in a di\_\_\_\_\_m *n.* a simplified illustration of the appearance, structure, or workings of something
127. technical ma\_\_\_\_l *n.* someone something that causes feelings of wonder or surprise
128. terrestrial gl\_\_e *n.* the earth or world, mainly used to emphasize its vastness
129. de\_\_\_e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
130. the\_\_\_\_\_al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
131. permanent ma\_\_\_\_t *n.* an object or substance that can attract certain materials, such as iron or steel
132. new di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length
133. a sl\_\_e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
134. write him an answer imm\_\_\_\_\_ly *adv.* now or without delay

ANSWERS: 124. experiment, 125. alien, 126. diagram, 127. marvel, 128. globe, 129. decide, 130. theoretical, 131. magnet, 132. dimension, 133. slice, 134. immediately

135. und\_\_\_\_\_nd activist *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
136. electron mic\_\_\_\_\_pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
137. sk\_\_e park *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
138. key mi\_\_\_\_\_ne *n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances
139. en\_\_\_\_\_ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
140. el\_\_\_\_\_t design *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
141. se\_\_\_\_\_te cream from milk *v.* to force, take, or pull apart; mark as different
142. se\_\_\_\_\_te video into chapter *v.* to force, take, or pull apart; mark as different
143. a bold hyp\_\_\_\_\_is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

ANSWERS: 135. underground, 136. microscope, 137. skate, 138. milestone, 139. encourage, 140. elegant, 141. separate, 142. separate, 143. hypothesis

144. ch\_\_\_\_\_ne celebration *n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere
145. in\_\_\_\_\_le stars *adj.* impossible or nearly impossible to see
146. sneak p\_\_k *n.* a quick or furtive look; (verb) to take a quick and secret look at something
147. f\_\_p a coin *v.* to turn over into a different position quickly; to throw or toss with a light motion
148. uns\_\_\_\_\_ing labor *adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.
149. as\_\_\_e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
150. ab\_\_\_t-minded *adj.* not present in a particular place at a particular time
151. save the pl\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
152. pl\_\_\_t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
153. history of hu\_\_\_\_\_nd *n.* the whole of the living human inhabitants of the earth
154. test my hyp\_\_\_\_\_is *n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

ANSWERS: 144. champagne, 145. invisible, 146. peek, 147. flip, 148. unsatisfying, 149. assume, 150. absent, 151. planet, 152. planet, 153. humankind, 154. hypothesis

155. st\_\_\_\_th of the economy *n.* the quality or state of being physically, or sometimes mentally, strong
156. campaign now un\_\_\_\_ay *adj.* having started and currently in progress
157. 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
158. l\_\_k data *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
159. h\_\_t after knowledge *v.* to go after and try to catch wild animals to kill them for food, sport, or profit
160. justice of the su\_\_\_\_e court *adj.* highest in rank, level, or importance
161. me\_\_\_\_cs of the game *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
162. und\_\_\_\_red territory *adj.* not yet found or known
163. a s\_\_m battle *n.* something that is not as good or true as it seems to be and is intended to deceive people; a person who pretends to be something they are not
164. f\_\_p over the pork chop *v.* to turn over into a different position quickly; to throw or toss with a light motion
165. mi\_\_s sign *adj.* subtracting or taking away; having a value less than zero

ANSWERS: 155. strength, 156. underway, 157. photon, 158. leak, 159. hunt, 160. supreme, 161. mechanics, 162. undiscovered, 163. sham, 164. flip, 165. minus

166. 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
167. mi\_\_\_\_\_ne event      *n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances
168. in\_\_\_\_\_te a preference      *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
169. f\_\_e in importance      *v.* to vanish; to fade away; to lose color; to lose freshness
170. s\_\_p judgment      *v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands
171. acc\_\_\_\_\_te the car      *v.* to make something faster or earlier; to cause to develop or progress more quickly
172. tu\_\_\_l construction work      *n.* an underground or underwater passage, typically for trains or cars
173. live in a cl\_\_\_\_\_r      *n.* a group of similar things or people close together, often forming a distinct mass or unit
174. the ul\_\_\_\_\_te goal in life      *adj.* furthest or highest in degree or order
175. sp\_\_\_\_\_l ability      *adj.* of or relating space and the position, area, and size of things
176. int\_\_\_\_\_ng concept      *adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating

ANSWERS: 166. gravity, 167. milestone, 168. indicate, 169. fade, 170. snap, 171. accelerate, 172. tunnel, 173. cluster, 174. ultimate, 175. spatial, 176. intriguing



177. ex\_\_\_\_\_e in anger      *v.* to burst or break open violently and noisily; to cause something to burst or break open
178. neuronal exc\_\_\_\_\_on      *n.* the state of being excited or stimulated; the process of producing an excited or stimulated state in something
179. ext\_\_\_\_\_ary ability      *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
180. ey\_\_\_\_\_w cosmetics      *n.* the hair arc over each eye in humans
181. sm\_\_k on the lips      *v.* to hit something or someone with force, often making a loud noise; to deliver a sharp criticism or rebuke
182. p\_\_d him with a stick      *v.* to poke or jab with a pointed object, often to urge or encourage movement or action; to provoke or stimulate someone to take action or respond in a particular way
183. learn new co\_\_\_\_\_ts      *n.* an idea or principle associated with something abstract
184. global di\_\_\_\_\_er      *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
185. additional sc\_\_\_\_\_ny      *n.* careful and detailed examination
186. earn ap\_\_\_\_\_se      *n.* a demonstration of approval or praise by clapping the hands together
187. s\_\_t the candidates      *v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

ANSWERS: 177. explode, 178. excitation, 179. extraordinary, 180. eyebrow, 181. smack, 182. prod, 183. concept, 184. disaster, 185. scrutiny, 186. applause, 187. sift

188. eve\_\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
189. public sc\_\_\_\_\_ny *n.* careful and detailed examination
190. a planetary or\_\_t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels
191. p\_\_e a fire *v.* to push or prod with a sharp object or the finger
192. con\_\_\_\_\_ion of purchase *n.* a statement, often written, that shows that something is true, correct, or definite
193. a sop\_\_\_\_\_ted lifestyle *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
194. def\_\_\_\_\_ve answer *adj.* serving to provide a final solution or to end a situation; final and not able to be changed
195. exp\_\_\_\_\_tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
196. fire dr\_\_l *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
197. the or\_\_t of the moon *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity; (of medicine) the bony cavity in the skull that houses the eyeball and its associated structures, like muscles, nerves, and blood vessels

ANSWERS: 188. eventually, 189. scrutiny, 190. orbit, 191. poke, 192. confirmation, 193. sophisticated, 194. definitive, 195. experimental, 196. drill, 197. orbit

198. wo\_\_\_e a few steps      *v.* to move or shake unsteadily from side to side or up and down
199. f\_\_e away almost completely      *v.* to vanish; to fade away; to lose color; to lose freshness
200. fo\_\_\_\_\_e the consequences      *v.* to perceive or predict; to anticipate or expect something to happen in the future
201. di\_\_\_\_\_t ancestors      *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
202. s\_\_d castle      *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
203. contractual co\_\_\_\_\_ge      *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
204. una\_\_\_\_\_ed e-mail      *adj.* not responded to or explained
205. probabilistic qu\_\_\_\_\_m theory      *n.* the smallest amount or unit of something, especially (electromagnetic) energy
206. a good grounding in mat\_\_\_\_\_cs      *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
207. show ru\_\_\_\_\_ss behavior      *adj.* lacking in pity or compassion; willing to do whatever it takes to achieve their goals, regardless of the consequences for others

ANSWERS: 198. wobble, 199. fade, 200. foresee, 201. distant, 202. sand, 203. coverage, 204. unanswered, 205. quantum, 206. mathematics, 207. ruthless

208. an infinite de\_\_\_\_\_l *adj.* based on or counted in the number 10
209. completely fas\_\_\_\_\_ng to me *adj.* extremely interesting
210. eve\_\_\_\_\_ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
211. ce\_\_\_\_\_te his election *v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
212. st\_\_k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
213. qua\_\_\_\_\_on atoms *n.* a number equivalent to a thousand raised to the power of five, or 10 to the 15th power; colloquially used to indicate an extremely large or theoretical number
214. tir\_\_\_\_\_ly help out *adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort
215. pr\_\_\_n decay *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
216. abs\_\_\_\_\_ly against *adv.* without restriction or limitation; completely or utterly
217. pos\_\_\_\_\_ty for growth *n.* a chance that something may happen or be true

ANSWERS: 208. decimal, 209. fascinating, 210. eventually, 211. celebrate, 212. stick, 213. quadrillion, 214. tirelessly, 215. proton, 216. absolutely, 217. possibility

218. p\_\_k at others' misfortune *n.* a quick or furtive look; (verb) to take a quick and secret look at something
219. p\_\_e around the desk *v.* to push or prod with a sharp object or the finger
220. di\_\_\_\_er recovery *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
221. the state of being we\_\_d *adj.* extraordinary, unexpected, or difficult to explain
222. the dr\_\_l hit the well *n.* a tool or machine used for making round holes or driving fasteners; a training or practice
223. full-co\_\_\_\_ge insurance *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
224. hold your br\_\_\_\_h *n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
225. first in\_\_\_\_g *n.* a slight or vague understanding or idea of something; a hint or intimation of something, often something that is not fully understood or realized
226. co\_\_\_\_on detection *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
227. helpful h\_\_ts *n.* an indirect suggestion; a slight but appreciable amount of something
228. re\_\_\_\_k the role of the manager *v.* to consider again a plan, idea, etc., especially to change it

ANSWERS: 218. peek, 219. poke, 220. disaster, 221. weird, 222. drill, 223. coverage, 224. breath, 225. inkling, 226. collision, 227. hint, 228. rethink

229. bu\_\_\_t list *n.* an open container with a handle made of metal or plastic, often used for carrying liquids
230. airplane g\_\_k *n.* a person who is highly interested and knowledgeable about a particular subject or field, often to the point of being obsessed
231. a sk\_\_\_\_\_al attitude *adj.* doubting that something is accurate or useful
232. ab\_\_\_\_\_ct science *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
233. field of artificial int\_\_\_\_\_nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
234. re\_\_\_e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
235. exp\_\_\_\_\_tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
236. pile of de\_\_\_s *n.* broken or torn fragments of something
237. s\_\_t sand *v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

ANSWERS: 229. bucket, 230. geek, 231. skeptical, 232. abstract, 233. intelligence, 234. relate, 235. experimental, 236. debris, 237. sift

238. de\_\_\_\_\_e us to meet again      *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
239. my\_\_\_\_\_y novel      *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
240. around the gl\_\_\_e      *n.* the earth or world, mainly used to emphasize its vastness
241. roller sk\_\_\_e      *n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces
242. ob\_\_\_\_\_s reasons      *adj.* easy to see, discover or understand
243. turn out to be all s\_\_\_m      *n.* something that is not as good or true as it seems to be and is intended to deceive people; a person who pretends to be something they are not
244. a m\_\_\_s of molten rock      *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
245. ele\_\_\_\_\_tic properties      *adj.* of or relating to the magnetism produced by electric charge in motion

ANSWERS: 238. destine, 239. mystery, 240. globe, 241. skate, 242. obvious, 243. sham, 244. mass, 245. electromagnetic

246. in\_\_\_\_\_g of hope *n.* a slight or vague understanding or idea of something; a hint or intimation of something, often something that is not fully understood or realized
247. raise her ey\_\_\_\_\_ws *n.* the hair arc over each eye in humans
248. mass of hu\_\_\_\_\_ty *n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
249. de\_\_\_\_\_e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach
250. fun\_\_\_\_\_al rights *adj.* forming an essential base or core from which everything else develops or is affected
251. re\_\_\_\_b effect *n.* an audio effect that produces a sound that is reflected off surfaces in an enclosed space, creating a sense of space or ambiance; the natural echoing or reverberation of sound in a large or open space
252. co\_\_\_\_\_t mainly of cells *v.* to be composed or made up of
253. student ach\_\_\_\_\_nt *n.* a thing that someone has accomplished, primarily through their effort and ability
254. re\_\_\_\_\_e a world record *v.* to write something such as a book or speech again in a different way, usually to improve it or add new information
255. elliptic ga\_\_\_\_y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 246. inkling, 247. eyebrow, 248. humanity, 249. deviate, 250. fundamental, 251. reverb, 252. consist, 253. achievement, 254. rewrite, 255. galaxy



256. muscular st\_\_\_\_th *n.* the quality or state of being physically, or sometimes mentally, strong
257. fin\_\_\_\_\_il biting *n.* the hard, slightly curved part that covers the outer tip of each finger
258. expert car\_\_\_\_\_her *v.* a person who creates or produces maps, typically by gathering or analyzing geographic data and using specialized software or tools
259. a minor f\_\_w *n.* a fault, mistake, or weakness that causes something not to be perfect
260. 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
261. ab\_\_\_t without leave *adj.* not present in a particular place at a particular time
262. ch\_\_\_\_\_ne toast *n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere
263. sl\_\_e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
264. mo\_\_t a counterattack *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
265. int\_\_\_\_\_ng character *adj.* arousing curiosity or interest, often due to a mysterious or complex quality; fascinating or captivating

ANSWERS: 256. strength, 257. fingernail, 258. cartographer, 259. flaw, 260. gravity, 261. absent, 262. champagne, 263. slice, 264. mount, 265. intriguing

266. h\_\_t of trouble *n.* an indirect suggestion; a slight but appreciable amount of something
267. round of ap\_\_\_\_se *n.* a demonstration of approval or praise by clapping the hands together
268. acquire te\_\_\_\_ry *n.* an area under the control of a ruler or state
269. aut\_\_\_\_le insurance *n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods
270. me\_\_\_\_cs equation *n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
271. theoretical ph\_\_\_\_st *n.* a scientist who specializes in the field of physics
272. public re\_\_m *n.* a domain of activity, interest, or knowledge
273. una\_\_\_\_ed love *adj.* not responded to or explained
274. 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
275. sem\_\_\_\_tor industry *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
276. re\_\_\_\_nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 266. hint, 267. applause, 268. territory, 269. automobile, 270. mechanics, 271. physicist, 272. realm, 273. unanswered, 274. spot, 275. semiconductor, 276. represent

277. pr\_\_\_n conductivity *n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
278. de\_\_\_e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
279. 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
280. at a fe\_\_\_\_\_sh pitch *adj.* having or showing symptoms of a high temperature, such as sweating and shivering; characterized by or showing strong feelings of excitement or energy
281. con\_\_\_\_\_ion bias *n.* a statement, often written, that shows that something is true, correct, or definite
282. 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
283. feel a sl\_\_\_t concern *adj.* very small in degree or amount
284. sp\_\_\_t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
285. the crosswise di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 277. proton, 278. decide, 279. discovery, 280. feverish, 281. confirmation, 282. instrument, 283. slight, 284. split, 285. dimension

286. fun\_\_\_\_\_al education *adj.* forming an essential base or core from which everything else develops or is affected
287. b\_\_y in the earth *v.* to place a dead body in the ground, grave, or tomb
288. class obs\_\_\_\_\_on day *n.* the act or activity of carefully examining or monitoring something or someone
289. abs\_\_\_\_\_ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
290. sop\_\_\_\_\_ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
291. li\_\_\_\_\_me benefits *n.* the duration of someone's life or something's existence;
292. a ga\_\_\_y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
293. pr\_\_\_\_\_e changes *v.* to make a proposal, declare a plan for something
294. ar\_\_e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
295. write el\_\_\_\_\_t sentences *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
296. re\_\_\_b chamber *n.* an audio effect that produces a sound that is reflected off surfaces in an enclosed space, creating a sense of space or ambiance; the natural echoing or reverberation of sound in a large or open space

ANSWERS: 286. fundamental, 287. bury, 288. observation, 289. absolutely, 290. sophisticated, 291. lifetime, 292. galaxy, 293. propose, 294. argue, 295. elegant, 296. reverb

297. feel fe\_\_\_\_sh *adj.* having or showing symptoms of a high temperature, such as sweating and shivering; characterized by or showing strong feelings of excitement or energy
298. a te\_\_\_\_\_ue in martial arts *n.* a particular way or art of doing something that needs skill
299. b\_\_y emotion *v.* to place a dead body in the ground, grave, or tomb
300. come into co\_\_\_\_\_on with my friend *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
301. con\_\_\_\_\_ial policy *adj.* causing a lot of hot public discussion and dispute
302. detect gr\_\_\_\_\_ons *n.* a hypothetical elementary particle in theoretical physics that is believed to mediate the force of gravity
303. hu\_\_\_\_\_nd as a species *n.* the whole of the living human inhabitants of the earth
304. equ\_\_\_\_\_nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
305. a cr\_\_y scheme *adj.* stupid or not sensible; very angry
306. s\_\_t a bullet *v.* to eject saliva or other liquid from the mouth
307. a cl\_\_\_\_\_r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
308. beauty s\_\_t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 297. feverish, 298. technique, 299. bury, 300. collision, 301. controversial, 302. graviton, 303. humankind, 304. equivalent, 305. crazy, 306. spit, 307. cluster, 308. spot

309. historical no\_\_l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
310. qua\_\_\_\_\_on dollars *n.* a number equivalent to a thousand raised to the power of five, or 10 to the 15th power; colloquially used to indicate an extremely large or theoretical number
311. co\_\_\_\_\_t car *n.* an idea or principle associated with something abstract
312. l\_\_k a classified memo *v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
313. water flowing und\_\_\_\_\_nd *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
314. be de\_\_\_\_\_ed to become a great artist *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
315. mo\_\_t a hill *v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone
316. create a br\_\_d logo *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

ANSWERS: 309. novel, 310. quadrillion, 311. concept, 312. leak, 313. underground, 314. destine, 315. mount, 316. brand

317. laws of qu\_\_\_\_m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
318. und\_\_\_\_\_red potential *adj.* not yet found or known
319. just getting un\_\_\_\_\_ay *adj.* having started and currently in progress
320. b\_\_p against a wall *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
321. 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
322. dis\_\_\_\_\_ent with the service *n.* the feeling of sadness, frustration, or dissatisfaction that arises when something does not live up to one's expectations or hopes
323. ph\_\_\_\_n energy *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
324. sem\_\_\_\_\_tor device *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
325. the br\_\_d of the new car *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

ANSWERS: 317. quantum, 318. undiscovered, 319. underway, 320. bump, 321. discovery, 322. disappointment, 323. photon, 324. semiconductor, 325. brand

326. s\_\_t a mouthful of saliva      *v.* to eject saliva or other liquid from the mouth
327. gr\_\_\_\_\_on particle      *n.* a hypothetical elementary particle in theoretical physics that is believed to mediate the force of gravity
328. de\_\_\_t smuggling across borders      *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 326. spit, 327. graviton, 328. detect



## Session 3: Fill in the Blanks

1. They donated large sums of money for the development of \_\_\_\_\_.  
*n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
2. The \_\_\_\_\_ concert was packed with fans.  
*adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
3. We can calculate the position of the \_\_\_\_\_ statistically.  
*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
4. She couldn't \_\_\_\_\_ whether to order the pizza or the pasta for dinner.  
*v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
5. He \_\_\_\_\_ the 10th anniversary of his tenure.  
*v.* to acknowledge a memorable or good day or event with a social gathering or enjoyable activity
6. The \_\_\_\_\_ of tectonic plates can result in new mountain ranges, such as the Himalayas or the Alps.  
*n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
7. They \_\_\_\_\_ pictures on the paper in preparation for the birthday card.  
*v.* to increase, go up, or advance gradually or continuously; to prepare and supply with the necessary equipment for execution or performance; to ride on something or someone

ANSWERS: 1. humanity, 2. standing, 3. particles, 4. decide, 5. celebrated, 6. collision, 7. mounted

8. The couple began to \_\_\_\_\_ over which restaurant to go to for dinner.  
*v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
9. Every day he wears a \_\_\_\_\_ white shirt to the office.  
*adj.* hard, dry, and brittle enough to break easily; cool, fresh, and invigorating
10. Having \_\_\_\_\_ parking has been very beneficial throughout the winter.  
*adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
11. He studied \_\_\_\_\_ in college and now works as an engineer.  
*n.* the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
12. There is plenty of space to \_\_\_\_\_ everyone.  
*v.* to place a dead body in the ground, grave, or tomb
13. Einstein was an outstanding and famous \_\_\_\_\_ of the 20th century.  
*n.* a scientist who specializes in the field of physics
14. The \_\_\_\_\_ on the beach was warm and golden.  
*n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
15. The rain and thunder are \_\_\_\_\_ today.  
*adj.* stupid or not sensible; very angry

ANSWERS: 8. argue, 9. crisp, 10. underground, 11. mechanics, 12. bury, 13. physicist, 14. sand, 15. crazy

16. The new phone is waterproof and can \_\_\_\_\_ being dropped in water.  
*v.* to resist the effect or impact of something
17. We can evaluate the performance of an \_\_\_\_\_ in terms of computation time.  
*n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
18. He bated his \_\_\_\_\_ when talking about this affair.  
*n.* the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
19. He has a flair for \_\_\_\_\_.  
*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
20. She wore an \_\_\_\_\_ evening gown to the gala.  
*adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
21. 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
22. He is drawing a \_\_\_\_\_ illustrating how the equipment operates.  
*n.* a simplified illustration of the appearance, structure, or workings of something
23. She used a stick to \_\_\_\_\_ the fire and make it burn brighter.  
*v.* to poke or jab with a pointed object, often to urge or encourage movement or action; to provoke or stimulate someone to take action or respond in a particular way

ANSWERS: 16. withstand, 17. algorithm, 18. breath, 19. mathematics, 20. elegant, 21. gravity, 22. diagram, 23. prod

24. The novel's plot was \_\_\_\_\_ and kept readers in their seats.

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

25. She had lived through two world wars in her \_\_\_\_\_.

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

26. The invention of the camera triggered the development of \_\_\_\_\_ painting.

*adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence

27. Marine \_\_\_\_\_ is a major continuous global problem.

*n.* broken or torn fragments of something

28. There's a new \_\_\_\_\_ of hero in the movies now.

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

29. His final goal is to sail around the \_\_\_\_\_.

*n.* the earth or world, mainly used to emphasize its vastness

30. There was no \_\_\_\_\_ of a problem.

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

31. The sun set over the crest of \_\_\_\_\_ hills.

*adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 24. intriguing, 25. lifetime, 26. abstract, 27. debris, 28. brand, 29. globe, 30. hint, 31. distant

32. Reaching the \_\_\_\_\_ of 1000 subscribers on her SNS channel was a major achievement for her.
- n.* an important event or stage in the development or progress of something; a stone by the side of a road to show distances
33. The corporation \_\_\_\_\_ dominated the entire tobacco business.
- adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
34. The dictator was known for his \_\_\_\_\_ tactics and had no qualms about using violence to maintain power.
- adj.* lacking in pity or compassion; willing to do whatever it takes to achieve their goals, regardless of the consequences for others
35. The \_\_\_\_\_ pleasure of life is the conviction that we are loved.
- adj.* highest in rank, level, or importance
36. The search for new \_\_\_\_\_ particles is one of the most exciting areas of modern physics.
- n.* a type of subatomic particle that follows Bose-Einstein statistics, which determine how identical particles with integer spins behave
37. Many cultures have their \_\_\_\_\_ creatures and legends.
- adj.* based on or related to myths, legends, or folklore; existing only in tales or in the imagination
38. He tried to \_\_\_\_\_ his experience to the group, but they couldn't understand.
- v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

ANSWERS: 32. milestone, 33. eventually, 34. ruthless, 35. supreme, 36. boson, 37. mythical, 38. relate

39. He was \_\_\_\_\_ from the meeting and missed all the important updates.

*adj.* not present in a particular place at a particular time

40. The energy output of the sun is measured in \_\_\_\_\_ of watts.

*n.* a number equivalent to a thousand raised to the power of five, or 10 to the 15th power; colloquially used to indicate an extremely large or theoretical number

41. She raised an inquiring \_\_\_\_\_ towards me.

*n.* the hair arc over each eye in humans

42. The old building \_\_\_\_\_ in a fiery inferno.

*v.* to burst or break open violently and noisily; to cause something to burst or break open

43. He studied the \_\_\_\_\_ of radiation.

*n.* the science of matter and energy and their interactions

44. They \_\_\_\_\_ fun at each other's jokes, laughing and teasing.

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

45. The security camera has \_\_\_\_\_ four intruders.

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

46. She worked \_\_\_\_\_ for hours to finish her project on time.

*adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort

47. The table \_\_\_\_\_ a little when I put my drink on it.

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

ANSWERS: 39. absent, 40. quadrillions, 41. eyebrow, 42. exploded, 43. physics, 44. poked, 45. detected, 46. tirelessly, 47. wobbled

48. Overall \_\_\_\_\_ are approximately 400x200mm.

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

49. I am \_\_\_\_\_ opposed to his idea because of morality.

*adv.* without restriction or limitation; completely or utterly

50. I \_\_\_\_\_ a problem arising if we don't address this issue now.

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

51. In terms of \_\_\_\_\_ he was head and shoulders above his classmates.

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

52. He carefully determined the \_\_\_\_\_ relations of every piece of the stage set.

*adj.* of or relating space and the position, area, and size of things

53. The rocket engine is used to put the satellite into \_\_\_\_\_.

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

54. Absolute zero is the lowest \_\_\_\_\_ temperature.

*adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

55. This evidence supports the big-bang \_\_\_\_\_.

*n.* a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate

ANSWERS: 48. dimensions, 49. absolutely, 50. foresee, 51. intelligence, 52. spatial, 53. orbit, 54. theoretical, 55. hypothesis

56. You \_\_\_\_\_ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
57. Jockey's superior \_\_\_\_\_ brought him victory.
- n.* a particular way or art of doing something that needs skill
58. 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
59. Several military \_\_\_\_\_ programs have become popular methods of exercise.
- n.* a tool or machine used for making round holes or driving fasteners; a training or practice
60. 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
61. The data \_\_\_\_\_ that the company's profits have steadily increased over the past quarter.
- v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
62. This project has been \_\_\_\_\_ for several years.
- adj.* having started and currently in progress

ANSWERS: 56. stick, 57. technique, 58. photons, 59. drill, 60. fraction, 61. indicates, 62. underway



63. 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
64. We need to \_\_\_\_\_ the aspect of his personality from the part of his competence when making an investment decision.
- v.* to force, take, or pull apart; mark as different
65. The cancellation of the concert was a huge \_\_\_\_\_ for the fans.
- n.* the feeling of sadness, frustration, or dissatisfaction that arises when something does not live up to one's expectations or hopes
66. The \_\_\_\_\_ of people who do not own property is politically impotent.
- n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
67. The \_\_\_\_\_ of his appointment as CEO was met with mixed reactions.
- n.* a statement, often written, that shows that something is true, correct, or definite
68. The European Central Bank is Europe's \_\_\_\_\_ of the Federal Reserve.
- n.* having the same value, quality, meaning, purpose, etc.
69. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.
- adj.* of or relating to the magnetism produced by electric charge in motion
70. The meal was \_\_\_\_\_ and left her feeling hungry an hour later.
- adj.* not fulfilling someone's desires, expectations, or needs; incomplete or inadequate.

ANSWERS: 63. instrument, 64. separate, 65. disappointment, 66. mass, 67. confirmation, 68. equivalent, 69. electromagnetic, 70. unsatisfying

71. The singer's voice had a natural \_\_\_\_\_ that sounded beautiful in the acoustically-designed church.
- n.* an audio effect that produces a sound that is reflected off surfaces in an enclosed space, creating a sense of space or ambiance; the natural echoing or reverberation of sound in a large or open space
72. She \_\_\_\_\_ the door shut, angry at the person on the other side.
- v.* to shut a door or window noisily; to strike something violently or noisily
73. Mercury is the closest \_\_\_\_\_ to the sun.
- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
74. The children complained because one \_\_\_\_\_ of cake was slightly larger than the other.
- n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
75. He \_\_\_\_\_ serious accounting irregularities that only people in the company's executive could know.
- v.* to allow liquid or gas to get in or out from a hole or crack in a pipe or container
76. They opened a bottle of \_\_\_\_\_ to celebrate their success.
- n.* a type of sparkling wine produced in the Champagne region of France, or any similar wine produced elsewhere
77. Companies often \_\_\_\_\_ their shares to lower the stock price and encourage investors to buy.
- v.* to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 71. reverb, 72. slammed, 73. planet, 74. slice, 75. leaked, 76. champagne, 77. split

78. He was a computer \_\_\_\_\_ and spent all his free time coding.
- n.* a person who is highly interested and knowledgeable about a particular subject or field, often to the point of being obsessed
79. 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
80. My memory will \_\_\_\_\_ but my heart will live on.
- v.* to vanish; to fade away; to lose color; to lose freshness
81. 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
82. She filled a \_\_\_\_\_ with water and carried it back to the house.
- n.* an open container with a handle made of metal or plastic, often used for carrying liquids
83. The government tried to \_\_\_\_\_ the commercialization of this development.
- v.* to make something faster or earlier; to cause to develop or progress more quickly
84. Truth is stranger than \_\_\_\_\_.
- n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
85. The news gave us an \_\_\_\_\_ of what was going on in the world.
- n.* a slight or vague understanding or idea of something; a hint or intimation of something, often something that is not fully understood or realized

ANSWERS: 78. geek, 79. spot, 80. fade, 81. galaxy, 82. bucket, 83. accelerate, 84. fiction, 85. inkling

86. His religious and philosophical beliefs were utterly \_\_\_\_\_.
- adj.* doubting that something is accurate or useful
87. Quantum physicists are studying the hypothetical interactions of \_\_\_\_\_ with other particles.
- n.* a hypothetical elementary particle in theoretical physics that is believed to mediate the force of gravity
88. The \_\_\_\_\_ industry is a major contributor to air pollution in cities.
- n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods
89. The car body scraped off with a \_\_\_\_\_.
- n.* the hard, slightly curved part that covers the outer tip of each finger
90. On the geological time scale, \_\_\_\_\_ has existed for a brief moment.
- n.* the whole of the living human inhabitants of the earth
91. This \_\_\_\_\_ has never been formally accepted.
- n.* a thing that someone has accomplished, primarily through their effort and ability
92. The solar wind is composed almost entirely of electrons and \_\_\_\_\_.
- n.* a very small particle with a positive charge equal to the negative charge of an electron that forms part of the nucleus of all atoms
93. This jigsaw \_\_\_\_\_ is challenging because there are no pictures.
- n.* a situation that is difficult to follow or solve; a game, problem, or toy that tests a person's ingenuity or knowledge; (verb) to cause someone to feel confused because of something difficult to understand

ANSWERS: 86. skeptical, 87. gravitons, 88. automobile, 89. fingernail, 90. humankind, 91. achievement, 92. protons, 93. puzzle

94. Human behavior has \_\_\_\_\_ characteristics.

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

95. They hope to \_\_\_\_\_ their business worldwide.

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

96. We have to \_\_\_\_\_ our company's product lineup for further growth.

*v.* to consider again a plan, idea, etc., especially to change it

97. Big techs are now eager to develop \_\_\_\_\_ computers.

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

98. His \_\_\_\_\_ showed highly positive results.

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

99. The \_\_\_\_\_ of getting the disease will drastically increase.

*n.* a chance that something may happen or be true

100. The \_\_\_\_\_ burst from the audience.

*n.* a demonstration of approval or praise by clapping the hands together

101. This examination \_\_\_\_\_ of five problems to solve.

*v.* to be composed or made up of

102. I used an optical \_\_\_\_\_ to observe the small organisms in the water sample.

*n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

ANSWERS: 94. fundamental, 95. expand, 96. rethink, 97. quantum, 98. experiments, 99. possibility, 100. applause, 101. consists, 102. microscope

103. 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

104. I need to \_\_\_\_\_ most of the essay with feedback from my teacher.

- v.* to write something such as a book or speech again in a different way, usually to improve it or add new information

105. The following example \_\_\_\_\_ that the capacity of each battery is the same.

- v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

106. The workers had to dig through solid rock to create the vehicular \_\_\_\_\_ allowing the cars to pass through the mountain.

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

107. She \_\_\_\_\_ a quick picture of the beautiful sunset before it disappeared.

- v.* to record on photographic film; to make a sudden, sharp sound; (noun) the act of catching an object with the hands

108. Hounds \_\_\_\_\_ their prey by using their keen scent.

- v.* to go after and try to catch wild animals to kill them for food, sport, or profit

109. The museum houses a \_\_\_\_\_ collection of Celtic artifacts.

- adj.* extremely interesting

110. The MRI machine uses \_\_\_\_\_ to produce images of the body's internal organs.

- n.* an object or substance that can attract certain materials, such as iron or steel

ANSWERS: 103. discovery, 104. rewrite, 105. assumes, 106. tunnel, 107. snapped, 108. hunt, 109. fascinating, 110. magnets

111. They \_\_\_\_\_ customers with a premium for loyal patronage.

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

112. 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

113. A suspension order from the court is effective \_\_\_\_\_.

- adv. now or without delay

114. The issue of the death penalty is highly \_\_\_\_\_.

- adj. causing a lot of hot public discussion and dispute

115. A \_\_\_\_\_ job requires a strong eye for detail and a deep understanding of geographic principles.

- v. a person who creates or produces maps, typically by gathering or analyzing geographic data and using specialized software or tools

116. Marketing strategies are growing more \_\_\_\_\_.

- adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

117. She had a \_\_\_\_\_ look in her eyes as she struggled with illness.

- adj. having or showing symptoms of a high temperature, such as sweating and shivering; characterized by or showing strong feelings of excitement or energy

118. Even the slightest design \_\_\_\_\_ in an aircraft can lead to a fatal accident.

- n. a fault, mistake, or weakness that causes something not to be perfect

ANSWERS: 111. encouraged, 112. represent, 113. immediately, 114. controversial, 115. cartographer's, 116. sophisticated, 117. feverish, 118. flaw

119. He \_\_\_\_\_ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
120. The company develops and sells \_\_\_\_\_ memory for use in computers and servers.
- n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
121. The search engine helps \_\_\_\_\_ information.
- v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles
122. The data he prepared was completely \_\_\_\_\_.
- n.* something that is not as good or true as it seems to be and is intended to deceive people; a person who pretends to be something they are not
123. My computer has been acting \_\_\_\_\_ recently.
- adj.* extraordinary, unexpected, or difficult to explain
124. She was able to \_\_\_\_\_ a free trip to the United States.
- v.* to continuously touch or manipulate something with someone's hands, mainly when bored or nervous; to act dishonestly to try to get money, information, etc., or gain an advantage
125. I decided to seek counseling on the advice of my \_\_\_\_\_.
- n.* one of a group of a coworker, especially in a profession or a business
126. We made \_\_\_\_\_ modifications to reflect the views of both sides.
- adj.* very small in degree or amount

ANSWERS: 119. constructs, 120. semiconductor, 121. sift, 122. sham, 123. weird, 124. fiddle, 125. colleague, 126. slight



127. The space shuttle is a modern engineering \_\_\_\_\_.

*n.* someone something that causes feelings of wonder or surprise

128. The \_\_\_\_\_ response team worked around the clock to aid those affected by the earthquake.

*n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

129. 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

130. The interests of the two countries \_\_\_\_\_.

*v.* to hit something violently when moving

131. The \_\_\_\_\_ surrounding the disappearance of the traveler has yet to be solved by authorities.

*n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

132. He narrated the \_\_\_\_\_ story of his adventure.

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

133. It's important not to \_\_\_\_\_ from the established safety procedures.

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

134. The jungle is full of \_\_\_\_\_ species waiting to be found.

*adj.* not yet found or known

ANSWERS: 127. marvel, 128. disaster, 129. flipped, 130. collide, 131. mystery, 132. extraordinary, 133. deviate, 134. undiscovered

135. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
136. Health and \_\_\_\_\_ are, above all, gold.
- n.* the quality or state of being physically, or sometimes mentally, strong
137. He stepped on the gas pedal, and the engine released a loud \_\_\_\_.
- n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
138. She took a quick \_\_\_\_\_ inside the box before closing it again.
- n.* a quick or furtive look; (verb) to take a quick and secret look at something
139. I want to \_\_\_\_\_ a toast in honor of our longstanding relationship.
- v.* to make a proposal, declare a plan for something
140. She accidentally \_\_\_\_\_ into him in the crowded room.
- v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
141. She tried to \_\_\_\_\_ out the gum that she had been chewing.
- v.* to eject saliva or other liquid from the mouth
142. The scandal received widespread media \_\_\_\_\_.
- n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

ANSWERS: 135. determinant, 136. strength, 137. rev, 138. peek, 139. propose, 140. bumped, 141. spit, 142. coverage

143. The \_\_\_\_\_ point separates the whole number from the fractional part.  
*adj.* based on or counted in the number 10
144. They incorporated the conquered \_\_\_\_\_ into their nation.  
*n.* an area under the control of a ruler or state
145. One such rapidly growing \_\_\_\_\_ is quantum cryptography.  
*n.* an idea or principle associated with something abstract
146. Management must take \_\_\_\_\_ responsibility for the accident.  
*adj.* furthest or highest in degree or order
147. The recipe calls for four cups of flour \_\_\_\_\_ one tablespoon.  
*adj.* subtracting or taking away; having a value less than zero
148. Full involvement means \_\_\_\_\_ and prompt responses.  
*adj.* honest and sincere; open and candid in expression
149. The \_\_\_\_\_ energy of the electron determines the wavelength of light emitted during fluorescence.  
*n.* the state of being excited or stimulated; the process of producing an excited or stimulated state in something
150. The product is still in the \_\_\_\_\_ stage.  
*adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
151. The study provided \_\_\_\_\_ proof of the effectiveness of the new drug.  
*adj.* serving to provide a final solution or to end a situation; final and not able to be changed

ANSWERS: 143. decimal, 144. territory, 145. concept, 146. ultimate, 147. minus, 148. frank, 149. excitation, 150. experimental, 151. definitive

152. She has been practicing an ice \_\_\_\_\_ routine for months

- n.* a type of footwear that has a blade attached to its sole for skating on ice or other hard surfaces; an activity or sport that involves gliding on skates on ice or other hard surfaces

153. The phenomenon is \_\_\_\_\_ at optical wavelengths.

- adj.* impossible or nearly impossible to see

154. In the hospital, she will remain under constant \_\_\_\_\_.

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

155. All products produced by our factory undergo rigorous \_\_\_\_\_.

- n.* careful and detailed examination

156. The \_\_\_\_\_ rainstorm caused the collapse of the corral.

- adj.* not anticipated or regarded as likely to happen

157. The \_\_\_\_\_ has largely gotten positive feedback.

- n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

158. There are \_\_\_\_\_ differences between the two wine-producing regions.

- adj.* easy to see, discover or understand

159. Her passions are in the \_\_\_\_\_ of real-world political affairs.

- n.* a domain of activity, interest, or knowledge

160. A \_\_\_\_\_ of grapes hung from the vine.

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

ANSWERS: 152. skate, 153. invisible, 154. observation, 155. scrutiny, 156. unexpected, 157. novel, 158. obvious, 159. realm, 160. cluster

161. The baseball player \_\_\_\_\_ the ball out of the park, securing a home run.

- v.* to hit something or someone with force, often making a loud noise; to deliver a sharp criticism or rebuke

162. Some people believe that we are all \_\_\_\_\_ for greatness.

- v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome

163. \_\_\_\_\_ species have drastically altered the ecosystem in this area.

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

164. Pardon me for leaving some of your questions \_\_\_\_\_.

- adj.* not responded to or explained

ANSWERS: 161. smacked, 162. destined, 163. Alien, 164. unanswered