Englist.me

Vocabulary Builder Reference from...

Sean Carroll: Distant time and the hint of a multiverse | TED Talk

https://www.ted.com/talks/sean_carroll_distant_time_ and_the_hint_of_a_multiverse



All Words

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

universe

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

synonym: cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe** The **universe** is about 13.8 billion years old.

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.

random

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

synonym: incidental, arbitrary, unanticipated

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

attach

v. to fasten, join, or connect one thing to another synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail He does not **attach** importance to these rumors.

telescope

- a device like a tube in shape containing lenses used to magnify and observe distant objects
- (1) a binocular **telescope**, (2) look through a **telescope** This facility has the largest astronomical **telescope** in the country.

blob

a small amount or drop of a thick liquid or sticky substance

synonym: chunk, lump, hunk

(1) a big **blob** of yellow, (2) a **blob** of jelly

A **blob** of ink fell on the floor.

roughly

adv. approximately but not precisely; with a violent manner *synonym*: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking Five miles is **roughly** similar to eight kilometers.

approximately

adv. close to a specific number or time but not exactly that number or time

synonym: about, around, roughly

(1) **approximately** 3 feet long, (2) **approximately** same This trail takes **approximately** 2.5 hours.

observable

adj. that can be noticed or seensynonym: visible, perceptible, detectable

(1) **observable** change, (2) experimentally **observable**Any theorem relies on both **observable** fact and assumption.

bang

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

synonym: crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down My father tried to **bang** mathematics into my head since childhood.

admire

v. to have regard for or respect for someone's qualities or the actions they have performed

synonym: esteem, respect, marvel

(1) **admire** the subtlety of the distinctions, (2) **admire** kids with attitude

We all **admire** him because he is a nobleman.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

ancestor

- n. a person from whom one is descended; a forefathersynonym: forebear, forefather, progenitor
- (1) **ancestor** language, (2) earliest human **ancestor**My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed I advised him to **adapt** to his new surroundings.

evolve

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

synonym: develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade Eyeless fish **evolved** in dark caves.

cosmology

 the scientific study of the nature and origin of the universe

synonym: cosmogony

(1) physical **cosmology**, (2) modern **cosmology Cosmology** evolved from people's philosophical questions about the natural world.

clue

 an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

synonym: hint, indication, inkling

- (1) a **clue** about the crime, (2) a **clue** to the diagnosis. The police couldn't find a **clue** to her whereabouts.
- n. the rate of change of an object's position with respect to

time, often measured in meters per second (m/s)

synonym: speed, rapidity, swiftness

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

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

expand

velocity

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.

dense

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

synonym: heavy, thick, idiotic

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

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

squeeze

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

synonym: compress, crush, clamp

(1) **squeeze** a lemon, (2) **squeeze** a confession She **squeezed** the toothpaste tube from the middle to get the last bit out.

temperature

- n. the degree of hotness or coldness of a thing or placesynonym: climate, warmth, degree
- (1) extreme **temperatures**, (2) the atmospheric **temperature**

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

gravitational

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

synonym: weighty, heavy, earthbound

(1) gravitational energy, (2) gravitational waves

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

imperfectly

adv. in a faulty or incomplete waysynonym: amiss, insufficiently, clumsily

(1) **imperfectly** developed, (2) **imperfectly** known disease He created an **imperfectly** shaped torso.

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.

atom

 the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym: particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**The outermost electron shell of an **atom** determines its chemical characteristics.

collapse

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

synonym: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**The roof finally **collapsed** after three days and three nights of heavy snowfall.

arrangement

 a plan or preparation for the future event; the action or process of placing things in a particular order

synonym: placement, configuration, account

(1) **arrangement** of the furniture, (2) **arrangement** committee

As a first **arrangement**, we agreed to meet the following Friday.

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.

contribution

n. the act of giving something, especially money, to a
 particular cause or organization; a voluntary gift as of
 money or service or ideas made to some worthwhile
 cause

synonym: donation, gift, offering

(1) make a positive **contribution**, (2) **contribution** to society

His **contribution** to the charity was a generous donation of money.

entropy

 a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty

synonym: randomness

(1) **entropy** calculation, (2) **entropy** conservation Since the second law of thermodynamics is applicable to the universe, the **entropy** of the universe continues to increase.

disorder

 an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions synonym: chaos, disturbance, disease

(1) the files are in complete **disorder**, (2) people with bipolar **disorder**

The doctor prescribed some medicine for the mental **disorder**.

chaotic

adj. without any order or organization; extremely disorganized, unpredictable, and confusing

synonym: disorderly, cluttered, topsy-turvy

(1) the **chaotic** economic situation, (2) **chaotic** theory Change is also occurring in Turkey as a result of **chaotic** reform.

formula

 a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement

synonym: expression, recipe, procedure

(1) structural **formula**, (2) a binomial **formula**

The teacher told the students to memorize the math **formula**.

engrave

v. to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner

synonym: carve, inscribe, etch

(1) engrave initials, (2) engrave metal

He wanted to **engrave** his wedding ring with their initials as a lasting symbol of their love.

tomb

 a large stone structure or underground chamber in which the dead are buried

synonym: grave, burial site, mausoleum

(1) bury in **tomb**, (2) the ancient **tomb**

The **tomb** of the unknown soldier honored the bravery and sacrifice of those who lost their lives in battle.

quants

 quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

synonym: quantitative analysts, number crunchers, data scientists

(1) the team of quants, (2) industry quants

Many financial **quants** work in investment banks, using complex mathematical models to analyze financial data.

rearrange

to change the order or position of things already made;
 to change the time, date, or place of an event already planned

synonym: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule Please **rearrange** these files as we start a new project tomorrow.

constituent

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

synonym: member, element, part

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

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

macroscopic

adj. visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools

synonym: large, visible, apparent

(1) **macroscopic** observation, (2) **macroscopic** anatomy The **macroscopic** view of the galaxy is simply breathtaking.

individual

- n. a single person or thing, as distinct from a group synonym: person, being, self
- (1) a private **individual**, (2) **individual** freedom As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

configuration

n. the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

(1) **configuration** of the system, (2) engine **configuration**The **configuration** of molecules in steel changes significantly with temperature.

crucial

adj. extremely vital or necessary synonym: essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women The revitalization of technology companies is **crucial** to the country's growth.

insight

 the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**We gained various **insights** by analyzing the vast amount of data owned by the company.

thermodynamics

- the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
- (1) applied **thermodynamics**, (2) the laws of **thermodynamics**

The second law of **thermodynamics** denies the existence of a perpetual motion engine.

isolate

v. to physically or socially separate someone or something from other people or things

synonym: separate, sequester, insulate

(1) **isolate** a compound, (2) **isolate** a patient You should not **isolate** them from the community.

arrow

a thin, pointed projectile designed to be shot from a bow;
 a symbol or pointer that is shaped like an arrow

synonym: shaft, dart, projectile

(1) arrow pointing, (2) arrow diagram

The archer aimed his **arrow** carefully at the target.

unfortunately

adv. by bad luck; unluckily

synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

modern

adj. of or belonging to the present time or recent timessynonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society Their headquarters are in a **modern** skyscraper.

bunch

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

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls One bad apple spoils the whole **bunch**.

undergraduate

 a student who is studying for their first degree at a university or other higher education institution

synonym: college student, freshman

(1) engineering **undergraduate**, (2) **undergraduate** course The class was composed of both **undergraduate** and graduate students.

physics

- n. the science of matter and energy and their interactions
- (1) nuclear physics, (2) laws of physicsHe studied the physics of radiation.

graduate

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

synonym:

alumna, alum, grad

(1) graduate degree program, (2) honor graduate Many employers hire **graduate** trainees to train as managers.

gravitation

the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass

synonym: attraction, pull, gravity

(1) terrestrial gravitation, (2) universal gravitation The force of **gravitation** keeps the planets in our solar system in orbit around the sun.

emphasize

- to give or show particular importance to something *synonym*: highlight, accentuate, stress
- (1) **emphasize** her words, (2) **emphasize** a direct relationship

Use italics or capitals to **emphasize** a word in a piece of writing.

puzzle

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.
- a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance

synonym: articulation, inflection, pronunciation

(1) a foreign **accent**, (2) put the **accent** on comfort She has a thick southern accent.

accent

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.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

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.

cubic

adj. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit

synonym: three-dimensional, boxlike, cubical

(1) cubic meter, (2) cubic structure

The package was a **cubic** shape, which made it easier to stack on the shelf.

centimeter

- a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
- (1) **centimeter** measurement, (2) thirty **centimeters** tall The room was only one **centimeter** wider than the piano, making it a tight fit.

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.

radiation

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

synonym: dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation** He tried every possible treatment, including chemotherapy and **radiation** therapy.

exert

- v. to put forth effort; to put into action; to bring into play synonym: exert, apply, use
- (1) **exert** control, (2) **exert** influence He **exerted** himself to lift the heavyweight.

perpetual

- adj. continuing for an extended period in the same way without stopping or being interrupted
- synonym: enduring, unchanging, incessant
- (1) **perpetual** motion machine, (2) **perpetual** struggle The company employs a **perpetual** inventory system.

impulse

 a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber

synonym: stimulation, provocation, urge

(1) a combative **impulse**, (2) profound religious **impulses**Nerve **impulses** cross a synapse through the action of neurotransmitters.

dilute

v. to make a substance less concentrated by adding a liquid or another substance to it

synonym: weaken, thin, reduce

(1) dilute acid with water, (2) dilute a great idea

She diluted the concentrated juice with water.

implication

 something that is inferred or indirectly stated; the act or fact of being involved in something

synonym: suggestion, association, conclusion

(1) the **implication** in a crime, (2) the **implication** of a word His poem has a very significant **implication**.

fond

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

synonym: liking, enjoying, affectionate

(1) very **fond** of, (2) **fond** memories of the birthday He is excessively **fond** of alcohol.

infinite

adj. unlimited or very great; impossible to measure *synonym*: boundless, countless, limitless

(1) infinite appetite, (2) infinite in supply

The battle had an **infinite** impact on the nation.

intent

 a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something

synonym: purpose, aim, goal

(1) the **intent** of a question, (2) **intent** gaze

The designer's **intent** was to create a minimalist aesthetic for the interior of the building.

finite

adj. having a limit or restriction of size, time, etc.

synonym: delimited, defined, limited

(1) finite resources, (2) finite decimal

Human beings have a **finite** lifespan, so we yearn for the idea of immortality.

surround

- v. to be all around something or somebody synonym: encircle, encompass, envelop
- (1) **surround** a town, (2) a stone wall **surrounds** the palace

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

horizon

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

synonym: skyline, view, visible boundary

- (1) the event **horizon** of a black hole, (2) business **horizon** As the sun set, the colors of the sky merged with the **horizon**, creating a beautiful orange and pink hue.
- a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance

synonym: flipper, appendage, stabilizer

(1) back fin, (2) a fin of a plane

The shark's powerful **fins** allowed it to swim at high speeds.

hawk

a bird of prey typically having short rounded wings and a n. long tail; an advocate of an aggressive policy on foreign relations

synonym: militarist, jingo, aggressor

(1) cast off a hawk, (2) congressional hawk

That team signed a center forward who was a ball- hawk.

emit

to give off or send out something such as light, heat, ν. sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

- 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.

fin

quantum

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.

curvature

 the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve

synonym: bend, arch, bow

(1) the degree of **curvature**, (2) spinal **curvature**The **curvature** of the earth can be seen from space.

mechanical

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

synonym: machinelike, automated, automatic

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

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

fluctuation

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

synonym: change, instability, flux

(1) price **fluctuations**, (2) **fluctuation** of water level Temperature **fluctuations** are often milder in oceanfront areas.

radiate

v. to spread out or emit something, such as light or heat, in all directions

synonym: give off, scatter, beam

(1) **radiate** an aura, (2) **radiate** in all directions Roads **radiate** from the famous building in the center of the city.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

calculation

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

synonym: analysis, computation, estimate

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

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

ordinary

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

synonym: mundane, prosaic, average

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

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

thermal

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

synonym: heat-related, warm, hot

(1) thermal insulation, (2) thermal energy

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

probabilistic

adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks

synonym: probable, statistical, likely

(1) probabilistic model, (2) probabilistic approach

In a **probabilistic** system, the outcome is uncertain and can vary based on chance.

enormous

adj. extremely large or great

synonym: huge, giant, gigantic

(1) enormous amount, (2) enormous potential

Shakespeare's output of poetry was **enormous**.

suffocate

v. to die or cause someone to die from lack of air or inability to breathe; to be overwhelmed or constricted by a feeling or situation, such as anxiety or oppression

synonym: choke, smother, stifle

(1) **suffocate** to death, (2) **suffocate** fire

People can **suffocate** from a lack of oxygen in confined spaces.

unlikely

adj. not probable or likely to happensynonym: doubtful, questionable, far-fetched

(1) **unlikely** event, (2) it is **unlikely** that he would win the game

The passage of the bill is unlikely.

obtain

- v. to get something, especially by making a great effort synonym: accept, acquire, receive
- (1) **obtain** a license, (2) **obtain** a bid Where can I **obtain** the application form?

molecule

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

synonym: particle, element, atom

(1) small molecules, (2) molecule behavior

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

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.

equilibrium

a state in which opposing forces or influences are balanced

synonym: balance, stability, harmony

(1) equilibrium point, (2) political equilibrium

The company struggled to maintain an **equilibrium** between its profits and social responsibilities.

expansion

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

synonym: growth, enlargement, development

(1) industrial expansion, (2) expansion project

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

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

absolute

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

synonym: complete, infrangible, indisputable

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

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

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.

evenly

adv. in equal amounts or shares; in a balanced or impartial way

synonym: constantly, smoothly, equally

(1) **evenly** colored, (2) almost **evenly** divided

This product can spread the cement **evenly**.

occasionally

adv. now and then; sometimes but not oftensynonym: periodically, sometimes, from time to time

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

She still occasionally writes a short romance novel.

invention

 the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention** Necessity is the mother of **invention**.

multiverse

- n. a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
- (1) the **multiverse** hypothesis, (2) the concept of the **multiverse**

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

anthropology

- n. the scientific study of humanity, concerned with human behavior, human biology, cultures, societies, and linguistics in both the present and past, including past human species
- (1) social **anthropology**, (2) **anthropology** of religion The areas of **anthropology** and psychology are significantly related to one another.

principle

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

synonym: rule, creed, code

(1) **principle** of treatment, (2) **principle** in business Efficiency isn't an essential **principle** here; fairness is.

process

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

(1) **process** improvement, (2) decision-making **process**The **process** for applying for a visa can be lengthy and complicated.

metabolism

- the set of chemical reactions in cells or organisms that are necessary for life-sustaining
- (1) **metabolism** enzyme, (2) hemoglobin **metabolism** Better sleep leads to increased **metabolism**.

bump

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

synonym: collide, hit, jolt

bump against a wall, (2) bump up prices
 She accidentally bumped into him in the crowded room.

relax

v. to become or cause someone to become less active or tense and calmer

synonym: soften, comfort, soothe

relax a series of muscles, (2) relax at home
 The rules were relaxed after the new executive arrived.

planet

 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.

fluctuate

 to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably

synonym: vary, oscillate, sway

(1) **fluctuate** prices, (2) **fluctuate** rapidly Stock prices **fluctuate** daily based on market demand and supply.

assignment

n. a duty or task given to someone, usually as part of their job or studies

synonym: task, duty, designation

(1) finish the **assignment**, (2) **assignment** of interest My **assignment** was overwhelming and complicated, but it was also exciting.

contemplate

v. to think about a possible future action or to think about something for a long time thoughtfully

synonym: think over, ponder, consider

(1) **contemplate** a marriage, (2) **contemplated** leaving school

I recently **contemplated** dropping out of school and getting a full-time job.

scenario

a description of possible actions or events in the future;
 a written outline of a play, film, or literary work

synonym: plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different **scenarios**

The president prepared several possible **scenarios** for an enemy attack.

frequent

adj. happening constantly

synonym: periodic, recurring, routine

(1) frequent absence, (2) frequent use

His heartaches are less frequent now.

orchard

 a piece of land that is planted with fruit trees, such as apples, pears, or cherries

synonym: grove, plantation, fruit garden

(1) local apple orchard, (2) orchard tree

The farmer owns an **orchard** where he grows apples, pears, and plums.

prediction

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

synonym: forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**These results muddled the **prediction**.

minimal

adj. tiny in amount; the least possible synonym: tiniest, essential, minimum

(1) minimal effort, (2) minimal amount

The process was carried out at **minimal** cost.

impressive

adj. arousing admiration due to size, quality, or skill synonym: impactful, remarkable, exceptional

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

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

statistics

- the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
- (1) **statistics** for cancer, (2) official **statistics**The **statistics** demonstrate that poverty and unemployment are genuine problems.

brain

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

synonym: intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage X-rays revealed a small tumor in his **brain**.

predict

- v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
 synonym: forecast, anticipate, foresee
- (1) **predict** the future, (2) **predict** when she will arrive It's notoriously challenging to **predict** birth rates.

hypothesis

 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**.

conclude

 to come to an end or close; to reach a judgment or opinion by reasoning

synonym: complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy We **concluded** a cease-fire.

nuclear

adj. of or relating to or constituting the nucleus of an atom;
 deriving destructive energy from the release of atomic energy

synonym: atomic

nuclear fusion, (2) use of nuclear power
 Many countries have now agreed to a treaty banning the use

of nuclear weapons.

fuel

 a substance that is typically burned to generate heat or energy

synonym: energy, power, gas

(1) biomass fuel, (2) smokeless fuel

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

evaporate

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

synonym: vaporize, disappear, vanish

(1) **evaporate** the water, (2) **evaporate** almost overnight The sun will **evaporate** the mist.

essentially

adv. relating to the essential features or concepts of anything synonym: fundamentally, basically, virtually

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

Page 24 / 74

Essentially, a society is an organism.

combination

a collection of things that have been combined; an assemblage of separate parts or qualities

synonym: blend, hybrid, compounding

(1) genic combinations, (2) combination number

The **combination** to the safe was a secret.

degree

 a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

afterglow

n. a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view

synonym: glow, sunset, twilight

(1) concert **afterglow**, (2) romantic **afterglow**

The **afterglow** of the sunset was a beautiful end to a long day.

brute

 a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power

synonym: beast, savage, animal

(1) **brute** beasts, (2) **brute** force

The **brute** behavior of the football players caused the game to be canceled.

unbroken

adj. continuous and not interrupted; (of promises or contracts) not violated or disregarded

synonym: intact, unchanged, continuing

(1) an **unbroken** horse, (2) **unbroken** chain

He enjoyed the **unbroken** quiet of the afternoon at the villa.

refrigerator

 an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment

synonym: fridge, cooler, icebox

(1) **refrigerator** magnet, (2) empty **refrigerator**Don't forget to put the eggs in the **refrigerator** after you've used them.

universal

adj. existing or affecting everywhere or everyone *synonym*: common, broad, worldwide

(1) **universal** life, (2) principles of **universal** design The picture earned near- **universal** acclaim from critics.

naturally

adv. as might be expected; by natural mannerssynonym: by nature, inherently, intrinsically

(1) **naturally** arising, (2) **naturally** regenerated forest He was **naturally** gifted.

bold

adj. brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks

synonym: brave, courageous, fearless

a bold design, (2) big, bold piano sounds
 The effort to alleviate climate change needs bold action.

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.

vindicate

 to clear someone or something of blame, suspicion, or doubt; to show or prove that someone or something is right or justified

synonym: justify, absolve, exonerate

(1) **vindicate** innocence, (2) **vindicate** his reputation The athlete's exceptional performance **vindicated** their coach's training methods and strategies.

external

adj. belonging to or situated outside of someone or something

synonym: outside, exterior, foreign

(1) external factors, (2) external commerce

When a company discloses information to the market, an **external** auditor verifies them.

communal

adj. belonging to or used by a group rather than individuals;for common use

synonym: collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

Communal elections were held in several European countries.

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**.

exciting

adj. causing a lot of interest or excitement

synonym: exhilarating, stimulating, thrilling

(1) exciting football player, (2) exciting news

The findings of the experiment were both **exciting** and unexpected.

Session 2: Spelling

- 1. a bu_h of trees
- 2. ex___al commerce
- 3. an or____ry school
- 4. pro_____tic approach
- 5. em____ze her words
- 6. Ne____an mechanics
- 7. very f d of
- 8. beauty s__t
- 9. en e metal

- n. a grouping of several similar things which are growing or fastened together
- adj. belonging to or situated outside of someone or something
- adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
- adj. characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
- v. to give or show particular importance to something
- adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
- adj. having affection or liking for someone, particularly someone you've known for a long time
- a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
- v. to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner

ANSWERS: 1. bunch, 2. external, 3. ordinary, 4. probabilistic, 5. emphasize, 6. Newtonian, 7. fond, 8. spot, 9. engrave

10.	a ram choice	adj.	made, done, or happening without method, conscious decision, or any regular pattern
11.	the stock market cosed	<i>v</i> .	to fall down or give way suddenly, often after breaking apart
12.	an impve array of facts	adj.	arousing admiration due to size, quality, or skill
13.	int gaze	n.	a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
14.	modern cogy	n.	the scientific study of the nature and origin of the universe
15.	physical cogy	n.	the scientific study of the nature and origin of the universe
16.	enus amount	adj.	extremely large or great
17.	ath firmly	<i>v</i> .	to fasten, join, or connect one thing to another
18.	coal swimming pool	adj.	belonging to or used by a group rather than individuals; for common use
19.	miI amount	adj.	tiny in amount; the least possible
20.	frnt absence	adj.	happening constantly
21.	essly correct	adv.	relating to the essential features or concepts of anything
22.	the team of qus	n.	quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions

ANSWERS: 10. random, 11. collapse, 12. impressive, 13. intent, 14. cosmology, 15. cosmology, 16. enormous, 17. attach, 18. communal, 19. minimal, 20. frequent, 21. essentially, 22. quants

23.	the mulse hypothesis	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
24.	adt as needed	<i>v</i> .	to make fit for or change to suit a new purpose or environment
25.	evte the water	<i>v</i> .	to turn a liquid into a gas; to become less intense and disappear gradually
26.	prle in business	n.	a fundamental law or truth that explains or controls how something happens or works
27.	unen chain	adj.	continuous and not interrupted; (of promises or contracts) not violated or disregarded
28.	adt fully to the environment	<i>v</i> .	to make fit for or change to suit a new purpose or environment
29.	vite his reputation	ν.	to clear someone or something of blame, suspicion, or doubt; to show or prove that someone or something is right or justified
30.	terrestrial graon	n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
31.	b_p against a wall	ν.	to hit or knock against something hard, often with a dull sound; to meet with by accident
32.	ord tree	n.	a piece of land that is planted with fruit trees, such as apples, pears, or cherries
33.	code that he is healthy	<i>v</i> .	to come to an end or close; to reach a judgment or opinion by reasoning

ANSWERS: 23. multiverse, 24. adapt, 25. evaporate, 26. principle, 27. unbroken, 28. adapt, 29. vindicate, 30. gravitation, 31. bump, 32. orchard, 33. conclude

34.	arrnt committee	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
35.	unsolved myy	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
36.	hemoglobin metsm	n.	the set of chemical reactions in cells or organisms that are necessary for life-sustaining
37.	miI effort	adj.	tiny in amount; the least possible
38.	a mecal style of writing	adj.	operated by a machine, relating to or concerned with machinery or tools
39.	emze a direct relationship	<i>v</i> .	to give or show particular importance to something
40.	industry qus	n.	quantitative analysts or individuals who specialize in using quantitative methods, including mathematical and statistical modeling, in analyzing financial markets and making investment decisions
41.	nutrient-dee foods	adj.	containing a large number of people or something with little space between them
42.	a gay of famous actors	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 34. arrangement, 35. mystery, 36. metabolism, 37. minimal, 38. mechanical, 39. emphasize, 40. quants, 41. dense, 42. galaxy

43.	laws of qum mechanics	n.	the smallest amount or unit of something, especially (electromagnetic) energy
44.	antogy of religion	n.	the scientific study of humanity, concerned with human behavior, human biology, cultures, societies, and linguistics in both the present and past, including past human species
45.	ise a compound	v.	to physically or socially separate someone or something from other people or things
46.	a combative ime	n.	a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
47.	make a calon	n.	the act or process of using numbers to judge an amount of something
48.	inte appetite	adj.	unlimited or very great; impossible to measure
49.	pale energy	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance
50.	cuc structure	adj.	having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
51.	dee centigrade	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

ANSWERS: 43. quantum, 44. anthropology, 45. isolate, 46. impulse, 47. calculation, 48. infinite, 49. particle, 50. cubic, 51. degree

52.	the laws of theics	n.	the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
53.	peal struggle	adj.	continuing for an extended period in the same way without stopping or being interrupted
54.	peal motion machine	adj.	continuing for an extended period in the same way without stopping or being interrupted
55.	accte a chemical reaction	ν.	to make something faster or earlier; to cause to develop or progress more quickly
56.	naly regenerated forest	adv.	as might be expected; by natural manners
57.	genic comons	n.	a collection of things that have been combined; an assemblage of separate parts or qualities
58.	sqe a lemon	v.	to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
59.	arrnt of the furniture	n.	a plan or preparation for the future event; the action or process of placing things in a particular order
60.	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
61.	neutral hydrogen ams	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

ANSWERS: 52. thermodynamics, 53. perpetual, 54. perpetual, 55. accelerate, 56. naturally, 57. combination, 58. squeeze, 59. arrangement, 60. spot, 61. atom

а

62.	exon project	<i>n</i> .	the process of becoming larger or more extensive, or the result of this process
63.	the ancient tb	n.	a large stone structure or underground chamber in which the dead are buried
64.	fd memories of the birthday	adj.	having affection or liking for someone, particularly someone you've known for a long time
65.	flte prices	<i>v</i> .	to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably
66.	finish the assnt	n.	a duty or task given to someone, usually as part of their job or studies
67.	indal freedom	<i>n</i> .	a single person or thing, as distinct from a group
68.	macic anatomy	adj.	visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
69.	rege the furniture	ν.	to change the order or position of things already made; to change the time, date, or place of an event already planned
70.	et a gamma ray	<i>v</i> .	to give off or send out something such as light, heat, sound, gas, etc.
71.	eny conservation	n.	a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
72.	pre-mon agricultural society	adj.	of or belonging to the present time or recent times
73.	coal combination of funds	adj.	belonging to or used by a group rather than individuals; for common use

ANSWERS: 62. expansion, 63. tomb, 64. fond, 65. fluctuate, 66. assignment, 67. individual, 68. macroscopic, 69. rearrange, 70. emit, 71. entropy, 72. modern, 73. communal

74.	business hon	n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
75.	assnt of interest	n.	a duty or task given to someone, usually as part of their job or studies
76.	spte on the outcome	<i>v</i> .	to form a theory or conjecture or guess about a subject without solid evidence
77.	granal waves	adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
78.	concert afow	n.	a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view
79.	universal graon	n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
80.	obn a bid	<i>v</i> .	to get something, especially by making a great effort
81.	gloomy preons	n.	the act of predicting the future by reasoning; a statement made about the future
82.	even more unfely	adv.	by bad luck; unluckily
83.	arw diagram	n.	a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow

ANSWERS: 74. horizon, 75. assignment, 76. speculate, 77. gravitational, 78. afterglow, 79. gravitation, 80. obtain, 81. prediction, 82. unfortunately, 83. arrow

84.	probabilistic qum theory	n.	the smallest amount or unit of something, especially (electromagnetic) energy
85.	nuclear phs	n.	the science of matter and energy and their interactions
86.	plt 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
87.	principles of unal design	adj.	existing or affecting everywhere or everyone
88.	mathematical pue	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
89.	die a great idea	<i>v</i> .	to make a substance less concentrated by adding a liquid or another substance to it
90.	obn a license	<i>v</i> .	to get something, especially by making a great effort
91.	a foreign act	n.	a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
92.	Nean physics	adj.	relating to Sir Isaac Newton or his laws of motion and universal gravitation

ANSWERS: 84. quantum, 85. physics, 86. planet, 87. universal, 88. puzzle, 89. dilute, 90. obtain, 91. accent, 92. Newtonian

93. ar_w pointing	n.	a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
94. evte almost overnight	<i>v</i> .	to turn a liquid into a gas; to become less intense and disappear gradually
95. exng news	adj.	causing a lot of interest or excitement
96. occlly dine with friends	adv.	now and then; sometimes but not often
97. rex a series of muscles	<i>v</i> .	to become or cause someone to become less active or tense and calmer
98. unal life	adj.	existing or affecting everywhere or everyone
99. the solid connt of blood cells	n.	one of the parts of the whole; a person represented by an elected official
100. absly against	adv.	without restriction or limitation; completely or utterly
101. smokeless fl	n.	a substance that is typically burned to generate heat or energy
102. expansion of the unse	n.	everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
103. the impon in a crime	n.	something that is inferred or indirectly stated; the act or fact of being involved in something
104. social antogy	n.	the scientific study of humanity, concerned with human behavior, human biology, cultures, societies, and linguistics in both the present and past, including past human species

ANSWERS: 93. arrow, 94. evaporate, 95. exciting, 96. occasionally, 97. relax, 98. universal, 99. constituent, 100. absolutely, 101. fuel, 102. universe, 103. implication, 104. anthropology

	future
n.	the act or process of using numbers to judge an amount of something
n.	the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
n.	a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
adj.	relating to heat or temperature; designed for or capable of producing or maintaining heat
adj.	relating to or denoting how living things develop or change from earlier forms
adj.	relating to or caused by gravity (= the force that attracts objects towards one another)
adv.	in a faulty or incomplete way
adj.	operated by a machine, relating to or concerned with machinery or tools
adj.	perfect or complete or to the most considerable degree possible
adj.	characterized by the influence of chance or probability; involving the use of statistical models or methods to estimate likelihoods or risks
	n. adj. adj. ady. adj. adj.

ANSWERS: 105. prediction, 106. calculation, 107. statistics, 108. fin, 109. thermal, 110. evolutionary, 111. gravitational, 112. imperfectly, 113. mechanical, 114. absolute, 115. probabilistic

116. put the act on comfort	n.	a distinctive way of pronouncing the words of a language that shows which area, country, or social group a person comes from; particular importance or significance
117. unfely caught in a shower	adv.	by bad luck; unluckily
118. ath a file to an e-mail	<i>v</i> .	to fasten, join, or connect one thing to another
119. ene initials	ν.	to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner
120. a stone wall sunds the palace	<i>v</i> .	to be all around something or somebody
121. abte loyalty	adj.	perfect or complete or to the most considerable degree possible
122. eny calculation	n.	a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
123. prt the future	v.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
124. naly arising	adv.	as might be expected; by natural manners
125. mon poetry	adj.	of or belonging to the present time or recent times
126. class obson day	n.	the act or activity of carefully examining or monitoring something or someone

ANSWERS: 116. accent, 117. unfortunately, 118. attach, 119. engrave, 120. surround, 121. absolute, 122. entropy, 123. predict, 124. naturally, 125. modern, 126. observation

127. grte degree program	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
128. enus potential	adj.	extremely large or great
129. make a positive conion	n.	the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
130. pre analyses	adj.	sharply exact or accurate or delimited
131. earliest human anor	n.	a person from whom one is descended; a forefather
132. rex at home	v.	to become or cause someone to become less active or tense and calmer
133. ade the subtlety of the distinctions	ν.	to have regard for or respect for someone's qualities or the actions they have performed
134. profound religious imes	n.	a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
135. obsle change	adj.	that can be noticed or seen
136. oxygen am	n.	the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
137. metsm enzyme	n.	the set of chemical reactions in cells or organisms that are necessary for life-sustaining

ANSWERS: 127. graduate, 128. enormous, 129. contribution, 130. precise, 131. ancestor, 132. relax, 133. admire, 134. impulse, 135. observable, 136. atom, 137. metabolism

138. share my ints	n.	the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
139. accte the car	ν.	to make something faster or earlier; to cause to develop or progress more quickly
140. sute to death	ν.	to die or cause someone to die from lack of air or inability to breathe; to be overwhelmed or constricted by a feeling or situation, such as anxiety or oppression
141. evely succeed	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
142. inte in supply	adj.	unlimited or very great; impossible to measure
143. thirty ceners tall	n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
144. elliptic gay	n.	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
145. estimate pre costs	adj.	sharply exact or accurate or delimited
146. stacs for cancer	n.	the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
147. evely become obsolete	adv.	finally, particularly after a long time or a lot of struggle, complications, and so on
148. a ce about the crime	n.	an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery

ANSWERS: 138. insight, 139. accelerate, 140. suffocate, 141. eventually, 142. infinite, 143. centimeter, 144. galaxy, 145. precise, 146. statistics, 147. eventually, 148. clue

149. appely 3 feet long	adv.	close to a specific number or time but not exactly that number or time
150. exposure to raon	n.	the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
151. vite innocence	<i>v</i> .	to clear someone or something of blame, suspicion, or doubt; to show or prove that someone or something is right or justified
152. prs improvement	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
153. anor language	n.	a person from whom one is descended; a forefather
154. save the plt	n.	any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
155. chc theory	adj.	without any order or organization; extremely disorganized, unpredictable, and confusing
156. a profound int	n.	the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

ANSWERS: 149. approximately, 150. radiation, 151. vindicate, 152. process, 153. ancestor, 154. planet, 155. chaotic, 156. insight

157. cuc meter	adj.	having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
158. ext control	<i>v</i> .	to put forth effort; to put into action; to bring into play
159. fie resources	adj.	having a limit or restriction of size, time, etc.
160. become essly same	adv.	relating to the essential features or concepts of anything
161. back f_n	n.	a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
162. flte rapidly	<i>v</i> .	to rise and fall irregularly or unexpectedly; to vary or change often and unpredictably
163. look through a tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
164. the concept of the mulse	n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
165. exal factors	adj.	belonging to or situated outside of someone or something
166. dee forests	adj.	containing a large number of people or something with little space between them
167. theoretical phst	n.	a scientist who specializes in the field of physics
168. people with bipolar dier	n.	an untidy state or a lack of organization; a physical condition or illness that causes problems with how a section of the body or brain functions

ANSWERS: 157. cubic, 158. exert, 159. finite, 160. essentially, 161. fin, 162. fluctuate, 163. telescope, 164. multiverse, 165. external, 166. dense, 167. physicist, 168. disorder

169. cener measuremer	nt <i>n</i> .	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
170. imply known disea	ase adv.	in a faulty or incomplete way
171. eve over the past dec	cade v.	to develop gradually, or to cause the development of something or someone gradually
172. ise a patient	v.	to physically or socially separate someone or something from other people or things
173. code a meeting	ν.	to come to an end or close; to reach a judgment or opinion by reasoning
174. fire stk	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
175. evy colored	adv.	in equal amounts or shares; in a balanced or impartial way
176. laws of phs	n.	the science of matter and energy and their interactions
177. undate course	n.	a student who is studying for their first degree at a university or other higher education institution
178. a bd design	adj.	brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks
179. an unen horse	adj.	continuous and not interrupted; (of promises or contracts) not violated or disregarded

ANSWERS: 169. centimeter, 170. imperfectly, 171. evolve, 172. isolate, 173. conclude, 174. stick, 175. evenly, 176. physics, 177. undergraduate, 178. bold, 179. unbroken

180. decision-making prs	n.	a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
181. number of different scios	n.	a description of possible actions or events in the future; a written outline of a play, film, or literary work
182. appely same	adv.	close to a specific number or time but not exactly that number or time
183. high vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
184. bp up prices	v.	to hit or knock against something hard, often with a dull sound; to meet with by accident
185. engineering undate	n.	a student who is studying for their first degree at a university or other higher education institution
186. a buh of schoolgirls	n.	a grouping of several similar things which are growing or fastened together
187. permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
188. frnt use	adj.	happening constantly
189. extreme temres	n.	the degree of hotness or coldness of a thing or place

ANSWERS: 180. process, 181. scenario, 182. approximately, 183. velocity, 184. bump, 185. undergraduate, 186. bunch, 187. brain, 188. frequent, 189. temperature

190. ecology and evoary biology	adj.	relating to or denoting how living things develop or change from earlier forms
191. empty reftor	n.	an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
192. initial vety	n.	the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
193. the chc economic situation	adj.	without any order or organization; extremely disorganized, unpredictable, and confusing
194. common inon	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
195. bombs fell at ram	adj.	made, done, or happening without method, conscious decision, or any regular pattern
196. macic observation	adj.	visible to the naked eye; relating to objects or phenomena that are large enough to be seen without the aid of a microscope or other magnifying tools
197. obson instrument	n.	the act or activity of carefully examining or monitoring something or someone
198. romantic afow	n.	a period of time following an event or experience during which a feeling of pleasure, satisfaction, or contentment persists; a lingering glow or light that remains after an object has disappeared from view

ANSWERS: 190. evolutionary, 191. refrigerator, 192. velocity, 193. chaotic, 194. invention, 195. random, 196. macroscopic, 197. observation, 198. afterglow

199. occlly change the routine	adv.	now and then; sometimes but not often
200. bg a phone down	ν.	to hit or cause to hit something in a way that makes a loud noise
201. comon number	n.	a collection of things that have been combined; an assemblage of separate parts or qualities
202. unly event	adj.	not probable or likely to happen
203. the impon of a word	n.	something that is inferred or indirectly stated; the act or fact of being involved in something
204. experimentally obsle	adj.	that can be noticed or seen
205. eve	ν.	to develop gradually, or to cause the development of something or someone gradually
206. it is unly that he would win the game	adj.	not probable or likely to happen
207. price fluons	n.	a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
208. political equum	n.	a state in which opposing forces or influences are balanced
209. bre beasts	n.	a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power
210. conion of the system	n.	the arrangement or pattern of something or a group of related things

ANSWERS: 199. occasionally, 200. bang, 201. combination, 202. unlikely, 203. implication, 204. observable, 205. evolve, 206. unlikely, 207. fluctuation, 208. equilibrium, 209. brute, 210. configuration

211. applied theics	n.	the area of physics that deals with heat, work, and temperature and their relation to energy, entropy, and the physical properties of matter and radiation
212. conte a marriage	ν.	to think about a possible future action or to think about something for a long time thoughtfully
213. ext influence	<i>v</i> .	to put forth effort; to put into action; to bring into play
214. roy explain my idea	adv.	approximately but not precisely; with a violent manner
215. the degree of cure	n.	the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
216. the int of a question	n.	a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
217. spte about the reason	v.	to form a theory or conjecture or guess about a subject without solid evidence
218. a private indal	n.	a single person or thing, as distinct from a group
219. a ce to the diagnosis	n.	an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
220. crl information	adj.	extremely vital or necessary
221. charged pale	n.	a small piece of something; a word or piece of a term with grammatical function but little or no significance

ANSWERS: 211. thermodynamics, 212. contemplate, 213. exert, 214. roughly, 215. curvature, 216. intent, 217. speculate, 218. individual, 219. clue, 220. crucial, 221. particle

222. ex d agricultural output 223. ex___d a lineup 224. a binomial fo a 225. a bold hyp____is 226. almost ev___y divided 227. b_g his fist on a desk 228. biomass f__l 229. talented ph____st 230. ex ng football player 231. theory of the un___se 232. local apple or____d

233. e t air pollution

234. br e force

- v. to increase or to make something greater in size, number, or importance
- v. to increase or to make something greater in size, number, or importance
- a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
- a proposed idea or explanation that is based on a few known facts but has not yet been proven to be true or accurate
- adv. in equal amounts or shares; in a balanced or impartial way
- v. to hit or cause to hit something in a way that makes a loud noise
- a substance that is typically burned to generate heat or energy
- n. a scientist who specializes in the field of physics
- adj. causing a lot of interest or excitement
- everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
- a piece of land that is planted with fruit trees, such as apples, pears, or cherries
- v. to give off or send out something such as light, heat, sound, gas, etc.
- a violent, wild, or feral animal; a person who is cruel, uncivilized, or lacking in intelligence or sensitivity; a physical force or power

ANSWERS: 222. expand, 223. expand, 224. formula, 225. hypothesis, 226. evenly, 227. bang, 228. fuel, 229. physicist, 230. exciting, 231. universe, 232. orchard, 233. emit, 234. brute

235.	fluon of water level	n.	a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
236.	absly obsessed with the girl	adv.	without restriction or limitation; completely or utterly
237.	a bb of jelly	n.	a small amount or drop of a thick liquid or sticky substance
238.	basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
239.	prle of treatment	n.	a fundamental law or truth that explains or controls how something happens or works
240.	mecs 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
241.	thI insulation	adj.	relating to heat or temperature; designed for or capable of producing or maintaining heat
242.	mole behavior	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
243.	the files are in complete dier	n.	an untidy state or a lack of organization a physical condition or illness that causes problems with how a section of the body or brain functions

ANSWERS: 235. fluctuation, 236. absolutely, 237. blob, 238. brain, 239. principle, 240. mechanics, 241. thermal, 242. molecule, 243. disorder

244. a big bb of yellow	n.	a small amount or drop of a thick liquid or sticky substance
245. small moles	n.	a group of two or more atoms held together by attractive forces known as chemical bonds
246. use of nur power	adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
247. roy speaking	adv.	approximately but not precisely; with a violent manner
248. impve performances	adj.	arousing admiration due to size, quality, or skill
249. sute fire	ν.	to die or cause someone to die from lack of air or inability to breathe; to be overwhelmed or constricted by a feeling or situation, such as anxiety or oppression
250. connt assembly	n.	one of the parts of the whole; a person represented by an elected official
251. structural foa	n.	a group of symbols, letters, or numbers that represent a rule, law, or mathematical statement
252. conion to society	n.	the act of giving something, especially money, to a particular cause or organization; a voluntary gift as of money or service or ideas made to some worthwhile cause
253. conted leaving school	<i>v</i> .	to think about a possible future action o to think about something for a long time thoughtfully

ANSWERS: 244. blob, 245. molecule, 246. nuclear, 247. roughly, 248. impressive, 249. suffocate, 250. constituent, 251. formula, 252. contribution, 253. contemplate

255. bury in t_b n. a large stone structure or undergroup chamber in which the dead are burie
OFFO
256. sqe a confession v. to apply pressure from two or more sides; to hold someone or something tightly in your arms, usually with fondness
257. the event hon of a black hole n. the line at which the earth's surface at the sky appear to meet; the range of interest or activity that can be anticipated
258. the atmospheric temre n. the degree of hotness or coldness of thing or place
259. electromagnetic raon n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous health
260. the worst case scio n. a description of possible actions or events in the future; a written outline a play, film, or literary work
261. orry annual revenue adj. not different, exceptional, or unexpeding any way, especially in quality, ability, or degree
262. fie decimal adj. having a limit or restriction of size, tire etc.
263. a crl issue for women adj. extremely vital or necessary

ANSWERS: 254. hawk, 255. tomb, 256. squeeze, 257. horizon, 258. temperature, 259. radiation, 260. scenario, 261. ordinary, 262. finite, 263. crucial

264. rae in all directions	ν.	to spread out or emit something, such as light or heat, in all directions
265. bachelor's dee	n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
266. sund a town	ν.	to be all around something or somebody
267. honor grte	n.	a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
268. spinal cure	n.	the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
269. engine conion	n.	the arrangement or pattern of something or a group of related things
270. ade kids with attitude	<i>v</i> .	to have regard for or respect for someone's qualities or the actions they have performed
271. prt when she will arrive	ν.	to state beforehand that something will happen in the future, mainly based on knowledge or experience
272. mecs 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

ANSWERS: 264. radiate, 265. degree, 266. surround, 267. graduate, 268. curvature, 269. configuration, 270. admire, 271. predict, 272. mechanics

273. rege his schedule	v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
274. big, bd piano sounds	adj.	brave, daring, and confident; not frightened of danger or afraid to say what you feel or to take risks
275. crossword pue	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
276. stk 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
277. reftor magnet	n.	an appliance or device used for preserving and cooling food and beverages by maintaining a low temperature within a closed compartment
278. myy 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
279. ready to cose	ν.	to fall down or give way suddenly, often after breaking apart
ANOMEDO 070		L 070 (' L 077 (' L 077

ANSWERS: 273. rearrange, 274. bold, 275. puzzle, 276. stick, 277. refrigerator, 278. mystery, 279. collapse

280. equum point	n.	a state in which opposing forces or influences are balanced
281. rae an aura	<i>v</i> .	to spread out or emit something, such as light or heat, in all directions
282. test my hypis	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
283. the inon of new techniques	n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
284. nur fusion	adj.	of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
285. congressional hk	n.	a bird of prey typically having short rounded wings and a long tail; an advocate of an aggressive policy on foreign relations
286. die acid with water	v.	to make a substance less concentrated by adding a liquid or another substance to it
287. a binocular tepe	n.	a device like a tube in shape containing lenses used to magnify and observe distant objects
288. industrial exon	n.	the process of becoming larger or more extensive, or the result of this process

ANSWERS: 280. equilibrium, 281. radiate, 282. hypothesis, 283. invention, 284. nuclear, 285. hawk, 286. dilute, 287. telescope, 288. expansion

Session 3: Fill in the Blanks

	happening constantly
2. T n.	The shark's powerful allowed it to swim at high speeds. a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
	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
	The company struggled to maintain an between its profits and ocial responsibilities.
n.	a state in which opposing forces or influences are balanced
	The budget reduction was an feat for our nation. arousing admiration due to size, quality, or skill
	The package was a shape, which made it easier to stack on the shelf. having the shape of a cube or being of three dimensions; measured in units that are the third power of a linear unit
7. <i>P</i> n.	a small amount or drop of a thick liquid or sticky substance
ANS'	WERS: 1. frequent, 2. fins, 3. mystery, 4. equilibrium, 5. impressive, 6. cubic, 7.

8.	a society is an organism.
adv	relating to the essential features or concepts of anything
9.	The company employs a inventory system.
adj	continuing for an extended period in the same way without stopping or being interrupted
10.	The room was only one wider than the piano, making it a tight fit.
n.	a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
11.	The archer aimed his carefully at the target.
n.	a thin, pointed projectile designed to be shot from a bow; a symbol or pointer that is shaped like an arrow
12.	He does not importance to these rumors.
v.	to fasten, join, or connect one thing to another
13.	Better sleep leads to increased
n.	the set of chemical reactions in cells or organisms that are necessary for life-sustaining
14.	The government tried to the commercialization of this development
ν.	to make something faster or earlier; to cause to develop or progress more quickly
15.	The various universes within the are sometimes called parallel universes.
n.	a hypothetical space or realm consisting of multiple universes, of which our universe is just one of them
	SWERS: 8. Essentially, 9. perpetual, 10. centimeter, 11. arrow, 12. attach, 13. tabolism, 14. accelerate, 15. multiverse

16. Change is also occurring in Turkey as a result of reform.	
adj. without any order or organization; extremely disorganized, unpredictable, as confusing	nd
17. I recently dropping out of school and getting a full-time job.	
v. to think about a possible future action or to think about something for a long time thoughtfully	}
18. He studied the of radiation.	
n. the science of matter and energy and their interactions	
19. We a cease-fire.	
v. to come to an end or close; to reach a judgment or opinion by reasoning	
20 evolved from people's philosophical questions about the natural world.	
n. the scientific study of the nature and origin of the universe	
21. The session of the Diet opened.	
adj. not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree	
22. The class was composed of both and graduate students.	
n. a student who is studying for their first degree at a university or other higher education institution	r
23. The imaging camera was used to detect heat signatures in the dark	, L=
adj. relating to heat or temperature; designed for or capable of producing or maintaining heat	
ANSWERS: 16. chaotic, 17. contemplated, 18. physics, 19. concluded, 20. Cosmology, 21. ordinary, 22. undergraduate, 23. thermal	

ANSWERS: 24. predict, 25. assignment, 26. graduate, 27. planet, 28. particles, 29. macroscopic, 30. relaxed, 31. evolved

gradually

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

- 35. Where can I _____ the application form?ν. to get something, especially by making a great effort
- 36. He created an _____ shaped torso. *adv.* in a faulty or incomplete way
- 37. People can _____ from a lack of oxygen in confined spaces.
 - v. to die or cause someone to die from lack of air or inability to breathe; to be overwhelmed or constricted by a feeling or situation, such as anxiety or oppression
- 38. We all _____ him because he is a nobleman.
- v. to have regard for or respect for someone's qualities or the actions they have performed
- 39. The entire mountain is covered in _____ rainforest.
 - adj. containing a large number of people or something with little space between them

ANSWERS: 32. exciting, 33. unlikely, 34. expansion, 35. obtain, 36. imperfectly, 37. suffocate, 38. admire, 39. dense

40. A	engineer is still in demand in many companies.
adj.	operated by a machine, relating to or concerned with machinery or tools
41. T	he error in the was attributable to rounding.
n.	the act or process of using numbers to judge an amount of something
42. T	he farmer owns an where he grows apples, pears, and plums.
n.	a piece of land that is planted with fruit trees, such as apples, pears, or cherries
43. T	his trail takes 2.5 hours.
adv.	close to a specific number or time but not exactly that number or time
44. N	lerve cross a synapse through the action of neurotransmitters.
n.	a sudden strong and unreflective wish or need to do something; the electrical discharge that travels along a nerve fiber
45. H	le enjoyed the quiet of the afternoon at the villa.
-	continuous and not interrupted; (of promises or contracts) not violated or disregarded
46. H	le himself to lift the heavyweight.
ν.	to put forth effort; to put into action; to bring into play
47. H	le studied in college and now works as an engineer.
	the branch of physics that deals with the study of motion, forces, and energy; (mechanic) someone whose occupation is repairing and maintaining automobiles
48. T	he process was carried out at cost.
adj.	tiny in amount; the least possible
	WERS: 40. mechanical, 41. calculation, 42. orchard, 43. approximately, 44. lses, 45. unbroken, 46. exerted, 47. mechanics, 48. minimal

ANSWERS: 49. absolutely, 50. probabilistic, 51. squeezed, 52. velocity, 53. quants, 54. infinite, 55. speculated, 56. accent

57.	The	for applying for a visa can be leng	thy and complicated.
n.	goal; a syste	ctions or operations performed to ematic procedure or approach used method of treating milk to make it s y products	d to accomplish a specific task or
58.	The treatment	ts were done but,	_ were unsuccessful.
adv	by bad luck;	unluckily	
59.	The Milky Wa	y has numerous water-bea	aring planets.
n.	•	lent group of stars, interstellar gas und together by gravity	, dark matter, etc., in the
60.	The revitalizat	tion of technology companies is	to the country's growth.
adj.	extremely vi	tal or necessary	
31.	The corporation	on dominated the ent	ire tobacco business.
adv	finally, partic	cularly after a long time or a lot of s	struggle, complications, and so
62.	The teacher to	old the students to memorize the n	nath
n.	a group of sy mathematica	ymbols, letters, or numbers that re al statement	present a rule, law, or
63.	The motion of	planets can be described using _	mechanics.
adj.	relating to S	ir Isaac Newton or his laws of moti	ion and universal gravitation
64.	Einstein was a	an outstanding and famous	of the 20th century.
n.	a scientist w	ho specializes in the field of physic	cs
		rocess, 58. unfortunately, 59. gala onian, 64. physicist	xy, 60. crucial, 61. eventually, 62

ANSWERS: 65. contribution, 66. telescope, 67. observation, 68. brute, 69. precise, 70. diluted, 71. refrigerator, 72. fluctuate

to rise and fall irregularly or unexpectedly; to vary or change often and

72. Stock prices _____ daily based on market demand and supply.

unpredictably

73.	The athlete's exceptional performance their coach's training methods and strategies.
v.	to clear someone or something of blame, suspicion, or doubt; to show or prove that someone or something is right or justified
74.	The sun will the mist.
ν.	to turn a liquid into a gas; to become less intense and disappear gradually
75.	algorithms can find ways to optimize that humans do not anticipate.
adj	relating to or denoting how living things develop or change from earlier forms
76.	He is excessively of alcohol.
adj	having affection or liking for someone, particularly someone you've known for a long time
	Human beings have a lifespan, so we yearn for the idea of immortality. having a limit or restriction of size, time, etc.
78.	Efficiency isn't an essential here; fairness is.
n.	a fundamental law or truth that explains or controls how something happens or works
79.	The president prepared several possible for an enemy attack.
n.	a description of possible actions or events in the future; a written outline of a play, film, or literary work
80.	Since the second law of thermodynamics is applicable to the universe, the of the universe continues to increase.
n.	a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
	SWERS: 73. vindicated, 74. evaporate, 75. Evolutionary, 76. fond, 77. finite, 78. sciple, 79. scenarios, 80. entropy

81.	One bad apple spoils the whole
n.	a grouping of several similar things which are growing or fastened together
82.	The force of keeps the planets in our solar system in orbit around the sun.
n.	the force by which a celestial body, such as the Earth, pulls objects toward its center; the attraction between two or more objects due to their mass
83.	The police couldn't find a to her whereabouts.
n.	an object, a piece of evidence, or some information that helps someone to find the answer to a problem, question, or mystery
84.	You should not them from the community.
v.	to physically or socially separate someone or something from other people or things
85.	I advised him to to his new surroundings.
<i>v</i> .	to make fit for or change to suit a new purpose or environment
86.	Temperature are often milder in oceanfront areas.
n.	a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
87.	My father tried to mathematics into my head since childhood.
v.	to hit or cause to hit something in a way that makes a loud noise
88.	She received her in psychology from the university.
n.	a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
	SWERS: 81. bunch, 82. gravitation, 83. clue, 84. isolate, 85. adapt, 86. tuations, 87. bang, 88. degree

97.	The of the sunset was a beautiful end to a long day.
n.	pleasure, satisfaction, or contentment persists; a lingering glow or light that
	remains after an object has disappeared from view
98.	Use italics or capitals to a word in a piece of writing.
<i>v</i> .	to give or show particular importance to something
99.	Any theorem relies on both fact and assumption.
adj	that can be noticed or seen
100	. As a first we agreed to meet the following Friday.
n.	a plan or preparation for the future event; the action or process of placing things in a particular order
101	. 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
102	2. These results muddied the
n.	the act of predicting the future by reasoning; a statement made about the future
103	The scarcity most severely impacted the manufacturing sector
n.	a substance that is typically burned to generate heat or energy
104	. To find drunk drivers, police conduct tests.
adj	made, done, or happening without method, conscious decision, or any regular pattern
	SWERS: 97. afterglow, 98. emphasize, 99. observable, 100. arrangement, 101. oothesis, 102. prediction, 103. fuel, 104. random

ANSWERS: 105. absolute, 106. nuclear, 107. statistics, 108. hawk, 109. expand, 110. temperatures, 111. brain, 112. quantum

113.	His poem has a very significant
n.	something that is inferred or indirectly stated; the act or fact of being involved in something
114.	He was gifted.
adv.	as might be expected; by natural manners
115.	The of the earth can be seen from space.
n.	the degree to which a line or surface deviates from being straight or flat; a measure of the amount of bending of a curve
116.	The of the unknown soldier honored the bravery and sacrifice of those who lost their lives in battle.
n.	a large stone structure or underground chamber in which the dead are buried
117.	Necessity is the mother of
n.	the creation of a new device or process resulting from study and experimentation; the act of inventing
118.	He wanted to his wedding ring with their initials as a lasting symbol of their love.
<i>v</i> .	to carve, cut, or etch a design, message, or image onto a surface, often using a sharp tool or laser; to permanently record or mark something in a lasting manner
119.	The to the safe was a secret.
n.	a collection of things that have been combined; an assemblage of separate parts or qualities
120.	Each member of the council has the right to vote on important decisions.
n.	one of the parts of the whole; a person represented by an elected official
	SWERS: 113. implication, 114. naturally, 115. curvature, 116. tomb, 117. ntion, 118. engrave, 119. combination, 120. constituent

ANSWERS: 121. thermodynamics, 122. radiate, 123. individual, 124. emits, 125. universe, 126. disorder, 127. configuration, 128. bumped

accident

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

129.	This product can spread the cement
adv.	in equal amounts or shares; in a balanced or impartial way
130.	The shape of the DNA is a double helix.
n.	a group of two or more atoms held together by attractive forces known as chemical bonds
131.	elections were held in several European countries.
adj.	belonging to or used by a group rather than individuals; for common use
132.	We gained various by analyzing the vast amount of data owned by the company.
n.	the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
133.	As the sun set, the colors of the sky merged with the creating a beautiful orange and pink hue.
n.	the line at which the earth's surface and the sky appear to meet; the range of interest or activity that can be anticipated
134.	Five miles is similar to eight kilometers.
adv.	approximately but not precisely; with a violent manner
135.	My remote immigrated to the United States from Ireland in the 1800s.
n.	a person from whom one is descended; a forefather
136.	She still writes a short romance novel.
adv.	now and then; sometimes but not often
	WERS: 129. evenly, 130. molecule, 131. Communal, 132. insights, 133. horizon, roughly, 135. ancestor, 136. occasionally

137.	The outermost electron shell of an determines its chemical charac	teristics.
n.	the smallest unit of ordinary matter that forms a chemical element, com of a nucleus and one or more electrons bound to the nucleus	posed
138.	B. He tried every possible treatment, including chemotherapy and therapy.	
n.	the energy that comes from a nuclear reaction in the form of rays, wave particles and that can be hazardous to health	s, or
139.	9. Shakespeare's output of poetry was	
adj.	i. extremely large or great	
140.). Please these files as we start a new project tomorrow.	
<i>v</i> .	to change the order or position of things already made; to change the ti date, or place of an event already planned	me,
141.	. The areas of and psychology are significantly related to another.	one
n.	the scientific study of humanity, concerned with human behavior, huma biology, cultures, societies, and linguistics in both the present and past, including past human species	
142.	2. The designer's was to create a minimalist aesthetic for the interbuilding.	or of the
n.	a strong determination or attention to do or achieve something; (adjecting having a strong determination to do or achieve something	ve)
143.	3. The picture earned near acclaim from critics.	
adj.	i. existing or affecting everywhere or everyone	
	SWERS: 137. atom, 138. radiation, 139. enormous, 140. rearrange, 141. hropology, 142. intent, 143. universal	

144. This jigsaw _____ is challenging because there are no pictures.

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: 144. puzzle