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Vocabulary Builder Reference from...

Christoph Adami: Finding life we can't imagine | TED Talk

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All Words

IMPORTANT

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Session 1: Word List

colleague

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

synonym: coworker, associate, fellow

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

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

theoretical

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

synonym: conceptual, conjectural, ideal

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

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

nuclear

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

synonym: atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

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.

quark

n. a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet

(1) **quark** physics, (2) the antiparticle of a **quark**

The Big Bang theory states that **quark-gluon** plasma filled the entire universe before matter as we know it was created.

gluon

n. a subatomic particle that binds quarks together in the nucleus of an atom, thus mediating the strong nuclear force

synonym : subatomic particle, nuclear force mediator

(1) **gluon** emission, (2) **gluon** interaction

The strong force, mediated by **gluons**, binds protons and neutrons in the atomic nucleus.

ion

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

(1) **ion** channel, (2) rechargeable lithium- **ion** battery

The increased concentration of **ion** of hydrogen ions in an aqueous solution makes it more acidic.

collision

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

synonym : crash, impact, smash

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

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

lab *n.* a workplace for the conduct of scientific research; a laboratory
synonym: workshop, laboratory, research chamber
(1) **lab** instrument, (2) medical **lab**
The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

computation *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
synonym: calculation, estimation, arithmetic
(1) parallel **computation**, (2) theory of **computation**
The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

neuroscience *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
(1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**
Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

depart *v.* to go away or leave, especially to start a journey
synonym: go away, leave, vacate
(1) arrive and **depart** on time, (2) **depart** from the faith
We **departed** before the temperature fell below zero.

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.

genetics *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms

(1) the science of **genetics**, (2) **genetics** discrimination
He is a specialist in the **genetics** of aging.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**
In junior high school, we had to dissect a frog in **biology** class.

rocket

n. a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon

synonym : projectile, missile

(1) **rocket** attack against the enemy, (2) **rocket** fuel
The **rocket** launch platform is visible from this hill.

jet

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

synonym : plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

propulsion

n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

synonym : propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**

The spacecraft's **propulsion** system helped it travel through space.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym : lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a

laboratory.

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.

hire

v. to give somebody a job

synonym : employ, engage, lease

(1) **hire** a guide, (2) **hire** a car by the hour

We should always be prepared to **hire** talented recruits.

quantum

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

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

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

biosignature

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

synonym : indicators, signs, evidence

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

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

measurable

adj. able to be measured, quantified, or assessed in some way

synonym : quantifiable, assessable, calculable

(1) **measurable** data, (2) **measurable** achievement

The company sets **measurable** goals to track progress and ensure success.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym : marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**
A rainbow is a natural **phenomenon**.

indicate

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

synonym: hint, suggest, show

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

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

presence

n. the fact or state that someone or something exists, occurs, or is present

synonym: existence, actuality, fact

(1) the evidence of the **presence**, (2) his majestic **presence**

The path to a solid online **presence** necessitates a high technical ability.

definition

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

synonym: description, connotation, meaning

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

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

supreme

adj. highest in rank, level, or importance

synonym: foremost, highest, greatest

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

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

doubt

n. a feeling of being uncertain about something, especially about how good or accurate it is

synonym: distrust, suspect, mistrust

(1) dispel **doubts**, (2) no **doubt** about the news

Doubt is the start, not the end, of intelligence.

define

v. to state or explain precisely the nature, scope, or meaning of something

synonym: characterize, depict, express

(1) **define** a word, (2) **define** my position

To advance this discussion, we must **define** "success" rigorously.

organism

n. a tiny living thing

synonym: being, creature

(1) aerobic **organism**, (2) group of **organisms**

A diversified plant species generally enhances beneficial **organism** populations.

phase

n. any stage in a series of events, change, or development

synonym: degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

backward

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

synonym: back, rearward, in reverse

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

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

embryo

n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

synonym: fetus, seed, origin

(1) destruction of human **embryos**, (2) **embryo** cloning

Our latest project is still at the **embryo** stage.

crystal

n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass

made of almost pure silica

synonym : quartz

(1) liquid **crystal**, (2) **crystal** analyses

A vast **crystal** chandelier glittered brightly above us.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym : microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to antibiotics.

convinced

adj. completely certain about something; having a strong belief or conviction in a particular religion

synonym : confident, positive, indoctrinated

(1) **convinced** of the idea, (2) **convinced** criminal

The public is **convinced** that the prime minister has committed fraud.

announcement

n. a public statement or declaration, often made in writing or through the media, that conveys important information or news

synonym : declaration, notification, statement

(1) public **announcement**, (2) **announcement** date

The company made an **announcement** about its new product at a press conference.

president

n. the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.

synonym : leader, CEO, chairperson

(1) **president** emeritus, (2) vice- **president** for finance

The club **president** does not have absolute power.

confer

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

synonym : consult, meet, discuss

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

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

amazing

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

synonym : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

discovery

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

synonym : finding, uncovering, detection

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

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

Martian

adj. of or relating to Mars or its imaginary inhabitants

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

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

meteorite

n. a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space

synonym : meteor, shooting star, asteroid

(1) **meteorite** impact, (2) **meteorite** shower

The **meteorite** fragments were collected and sent to a laboratory for analysis.

nowadays

adv. at the current time, in comparison to the past

synonym : currently, presently, today

(1) young people **nowadays**, (2) not to be seen **nowadays**

People can clone a sheep **nowadays**.

dispute

n. a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one

synonym : argument, disagreement, quarrel

(1) a legal **dispute** over the title, (2) **dispute** settlement

The **dispute** over the ownership of the land has been ongoing for years.

distinction

n. a difference or contrast between similar things or people

synonym : eminence, noteworthiness, excellence

(1) important **distinction**, (2) draw a **distinction**

I can't see any **distinction** between these two concepts.

encyclopedia

n. a comprehensive reference work containing articles on a wide range of subjects or numerous aspects of a particular field or discipline, usually arranged alphabetically or thematically

synonym : dictionary, compendium, almanac

(1) **encyclopedia** entry, (2) online **encyclopedia**

Many bookshops no longer carry printed **encyclopedias**, but some libraries still hold onto their collections.

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym : cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

complicated

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

synonym : complex, convoluted, intricate

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

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

concept

n. an idea or principle associated with something abstract

synonym : idea, notion, vision

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

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

convoluted

adj. extraordinarily complicated and hard to understand

synonym: intricate, complex, bending

(1) **convoluted** plot, (2) **convoluted** legal language

James Joyce's books are full of long, **convoluted** sentences.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

inane

adj. lacking significance, meaning, or substance; silly or frivolous in nature; lacking intelligence or understanding

synonym: silly, senseless, foolish

(1) **inane** conversation, (2) **inane** remark

The speaker's **inane** comments made the audience lose interest in the presentation.

highlight

v. to make something prominent, mainly so that people give it more attention

synonym: feature, emphasize, stress

(1) **highlight** a string in red, (2) **highlight** an important difference

The introduction **highlighted** the speaker's distinguished career as a consultant

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym: depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him
Babies heavily **rely** on others for food.

amino

n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein

(1) **amino** compound, (2) **amino** acid

This company was granted a patent for its **amino** resin manufacturing process.

acid

n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

synonym : sour

(1) an **acid** reaction, (2) good source of essential amino **acids**

During pregnancy, the stomach generates less **acid** than usual.

process

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

synonym : procedure, method, system

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

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

artificial

adj. not natural and made by human beings; not real but produced to resemble something

synonym : synthetic, man-made, manufactured

(1) **artificial** flowers, (2) **artificial** environment

The **artificial** intelligence system has revolutionized the way we live and work.

manufacture

v. to make goods in large numbers, usually in a factory using machines

synonym : create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

whirlwind

n. a very strong wind that moves rapidly in circles and causes a lot of damage

synonym: tornado, waterspout, dust devil

(1) economic **whirlwind**, (2) **whirlwind** of events

We went on a **whirlwind** visit to the sightseeing spot.

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym: bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

infection

n. a condition in which pathogenic microorganisms or viruses have entered the body

synonym: contagion, disease, transmission

(1) a bacterial **infection**, (2) treat the **infection** with antibiotics

Hospitals must meet various standards to prevent nosocomial **infections**.

floppy

adj. not stiff or firm; hanging loosely

synonym: limp, flaccid, pliable

(1) **floppy** infant, (2) **floppy** hat

The puppy's ears were still too long and **floppy** for its head.

disk

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

synonym: record, platter, plate

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

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

spike

n. a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something

synonym : end, spindle, point

(1) to **spike**, (2) to prevent blood sugar **spikes**

The recent **spike** in grain prices is partly due to the war in the producing countries.

influenza

n. (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics

synonym : grippe, flu

(1) an epidemic outbreak of **influenza**, (2) **influenza B** strain

The research institute allocated a lot of money to study the cause and prevention of **influenza**.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym : cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

operate

v. to work in a particular way; to supervise something

synonym : work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

forth

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

synonym : forward, onwards, ahead

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

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

phylogenetics

n. the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics

synonym : evolutionary genetics, cladistics

(1) biogeographical **phylogenetics**, (2) **phylogenetics** tree
Her research focuses on molecular **phylogenetics**, which uses gene sequences to study evolutionary relationships.

viral

adj. relating to or caused by a virus

(1) fight **viral** infections, (2) detect a **viral** code

This device can more accurately detect **viral** pathogens.

concerned

adj. feeling worry or interest about something; showing interest or attention

synonym : worried, caring, involved

(1) persons **concerned**, (2) **concerned** citizen

I am **concerned** about the safety of the children playing in the park.

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.

writ

n. a written legal order or command

synonym : legal document, order, legal process

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

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

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym : academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

decide

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

synonym: choose, determine, settle

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

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

packaging

n. the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging

synonym: wrapping, packing, boxing

(1) **packaging** materials, (2) biodegradable **packaging**

The **packaging** for the fragile items was made of sturdy materials and could withstand rough handling during shipping.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind

The mobile application industry is **constantly** changing.

destroy

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

synonym: demolish, ruin, obliterate

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

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

ecologist

n. a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

synonym: conservationist, naturalist

(1) behavioral **ecologist**, (2) forestry **ecologist**

The forestry **ecologist** studied the interactions between the

different species in the forest's ecosystem.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

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

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

undergraduate

n. 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.

stud

n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

synonym: beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

profess

v. to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm

synonym: declare, claim, confess

(1) **profess** innocence, (2) **profess** law

He **professes** his love for her every day, showering her with gifts and affection.

assure

v. to give confidence or reassurance to someone; to convince or guarantee someone that something will happen or that something is true

synonym: ensure, guarantee, promise

(1) **assure** safety, (2) **assure** quality

I want to **assure** you that you have my full support.

survive

v. to live or exist despite a dangerous event or period
synonym : endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash

These birds can only **survive** in temperate climates.

entrails

n. the internal organs of an animal or human body; the visceral organs, especially those in the abdominal cavity or gut; the inner workings or essence of something

synonym : guts, intestines, insides

(1) animal **entrails**, (2) **entrails** of the earth

The chef used the pig's **entrails** to make a traditional dish from his homeland.

population

n. the total number of people in a country, region, or location

synonym : people, inhabitants, folk

(1) **population** change, (2) labor **population**

In just four years, the **population** has doubled.

structure

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

synonym : construction, architecture, establishment

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

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

strain

n. a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

synonym : pressure, tension, breed

(1) **strain** our eyes, (2) a **strain** of bacillus

Dictators of the past often had the erroneous idea of a pure racial **strain**.

mutation

n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym : metamorphosis, transformation, alteration

(1) **mutation** of DNA, (2) hereditary **mutation**

Radiation often promotes genetic **mutations** in plants and animals.

acquire

v. to buy or obtain something such as an asset, object, knowledge, etc., for oneself

synonym : attain, earn, catch

(1) **acquire** knowledge, (2) **acquire** a new company

Children **acquire** language at a fantastic rate.

extinction

n. the complete disappearance of a species from the earth

synonym : disappearance, eradication, annihilation

(1) **extinction** prevention, (2) brink of **extinction**

The **extinction** of the dinosaurs is thought to have been caused by an asteroid impact.

dynamic

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

synonym : energetic, active, vital

(1) a **dynamic** market, (2) **dynamic** person

The sprinter has a **dynamic** way of running.

experiment

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

synonym : experimentation, investigation

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

His **experiments** showed highly positive results.

replicate

v. to make an exact copy of something; to repeat a process or experiment to confirm the results

synonym : duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

immediately

adv. now or without delay

synonym: directly, instantly, promptly

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

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

innovation

n. the creation of a new device or process resulting from study and experimentation

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

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.

generation

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

synonym: cohort, age group, era

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

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

dumb

adj. lacking the power of speech, unable to speak; stupid, or lacking intelligence

synonym: mute, speechless, idiotic

(1) **dumb** creatures, (2) struck **dumb**

He made a **dumb** mistake and forgot to submit the report on

time.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

stasis

n. a state of stillness or immobility, often used in a medical context to refer to a lack of change or progress in a condition or disease

synonym: stillness, inactivity, stagnation

(1) renal **stasis**, (2) **stasis** in development

The patient's **stasis** in the hospital was concerning to the doctors.

essentially

adv. relating to the essential features or concepts of anything

synonym: fundamentally, basically, virtually

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

Essentially, a society is an organism.

erase

v. to remove something completely, especially by rubbing it

synonym: wipe out, delete, obliterate

(1) **erase** a memory, (2) **erased** the files

He attempted to **erase** the misspelled word.

gene

n. the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

synonym: factor, cistron

(1) **gene** expression, (2) **gene** cloning

A defective **gene** is responsible for the disease.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym : accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

bias

n. a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment

synonym : inclination, partiality, predilection

(1) **bias** against a big company, (2) have a **bias** toward socialism

She researched gender **bias** in politics.

construct

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

synonym : build, assemble, create

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

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

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.

develop

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

synonym : evolve, progress, advance

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

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

capture

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

synonym : catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts
I was able to **capture** the moment on film.

introduction

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

synonym : initiation, preamble, prologue

(1) **introduction** education, (2) self- **introduction**

The **introduction** to the new class was informative and engaging.

detect

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

synonym : catch, observe, notice

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

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

distinguish

v. to notice or understand the difference between two people or things

synonym : determine, differentiate, characterize

(1) **distinguish** these two things, (2) **distinguish** man from the other animals

This study **distinguished** four different ways to run a business.

opposed

adj. being completely different from something or disagreeing strongly with something

synonym : anti, averse, hostile

(1) two **opposed** characters, (2) absolutely **opposed** to abortion

I'm strongly **opposed** to that plan.

alphabet

n. a character set that includes letters and is used to write a language

synonym : ABC's

(1) letters of an **alphabet**, (2) an **alphabet** of manual signs

He strove to memorize the Hebrew **alphabet**.

frequency

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

synonym: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

plot

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

synonym: scheme, plan, design

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

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

random

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

synonym: incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**

To find drunk drivers, police conduct **random** tests.

obvious

adj. easy to see, discover or understand

synonym: apparent, conspicuous, evident

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

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

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.

frequent

adj. happening constantly

synonym: periodic, recurring, routine

(1) **frequent** absence, (2) **frequent** use

His heartaches are less **frequent** now.

distribute

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

synonym: broadcast, disperse, hand out

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

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

robust

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

synonym: healthy, strong, booming

(1) **robust** growth, (2) a **robust** appetite

The experiment yielded **robust** results that support his theory.

germ

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

synonym: bacterium, microbe, pathogen

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

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

poem

n. a piece of writing that emphasizes the expression of feelings and ideas by paying particular attention to diction (sometimes rhyme), rhythm, and imagery

synonym: ballad, lyric, verse

(1) a narrative **poem**, (2) **poem** to the dead

A great **poem** is a fountain forever overflowing with the waters of wisdom and delight.

mathematics

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

synonym: arithmetic, calculation, calculus

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

He has a flair for **mathematics**.

signature

n. a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone

synonym: autograph, mark, handwriting

(1) **signature** dish, (2) artist's **signature**

The lawyer confirmed that the **signature** on the contract was genuine.

stable

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

synonym: sturdy, unmoving, durable

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

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

rewrite

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

synonym: revise, edit, rework

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

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

inspire

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

synonym: boost, encourage, enlighten

(1) **inspire** a feeling of curiosity, (2) **inspire** him to write a novel

The unique style of this martial arts **inspired** many action film producers.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and

other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

synonym: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

element

n. a fundamental or essential part of something

synonym: component, feature, essence

(1) new design **elements**, (2) nonmetallic **elements**

Natural selection is an essential **element** in Darwin's theory of evolution.

alternative

n. one of two or more available possibilities or choice

synonym: choice, option

(1) an **alternative** plan, (2) there is no other **alternative**

Doctors are gradually coming around to the idea of using **alternative** medicines.

nucleus

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

synonym: core, heart, middle

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

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

carboxyl

n. a functional group consisting of a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group, commonly found in organic compounds

(1) amino **carboxyl**, (2) the **carboxyl** end of the molecule

The **carboxyl** group is a functional group that consists of a carbon atom double-bonded to an oxygen atom and a single-bonded to a hydroxyl group.

fatty

adj. containing a lot of fat

synonym : greasy, oily

(1) less **fatty** meat, (2) **fatty** acid

You should keep away from **fatty** foods.

chemistry

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

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

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

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

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

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

comet

n. a celestial object consisting of a nucleus of ice and dust that goes around the sun

synonym : meteor, asteroid, meteoroid

(1) the surface of the **comet**, (2) **comet** Halley

The **comet's** bright tail could be seen in the night sky.

interstellar

adj. relating to or located in the space between stars

synonym : galactic, cosmic, intergalactic

(1) **interstellar** communication, (2) **interstellar** space

The **interstellar** medium comprises gas, dust, and cosmic rays that fill the space between stars.

primordial

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

synonym : ancient, original, primary

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

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

glycine

n. an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms

synonym : glycogenic amino acid

(1) **glycine** supplement, (2) **glycine** metabolism

The protein contained a high **glycine** content, making it vital for specific metabolic reactions.

phenylalanine

n. an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

synonym : amino acid, Phe

(1) **phenylalanine** deficiency, (2) **phenylalanine** hydroxylase

Certain soft drinks and sugar-free products have warning label about their **phenylalanine** content.

trace

v. to find or discover someone or something that was lost

synonym : seek, follow, depict

(1) **trace** a telephone call, (2) **trace** back to medieval times

Let's **trace** the origins of some familiar foreign words.

suppose

v. to think that something is likely to be actual or possible

synonym : guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

dirt

n. soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock

synonym : filth, grime, muck

(1) **dirt** road, (2) **dirt** track

The garden was filled with **dirt** and needed to be tilled before planting.

spectrometer

n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

synonym : spectroscope, analyzer, detector

(1) **spectrometer** measurement, (2) optical **spectrometer**

The infrared **spectrometer** helped identify the chemical composition of the sample.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym : explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

spectrum

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

synonym : range, scale, spread

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

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

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym : attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

sediment

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

synonym : deposition, residue

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

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

grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym : mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh cup.

detectable

adj. capable of being discovered or identified

synonym : perceptible, noticeable, observable

(1) a barely **detectable** change, (2) **detectable** by the human ear

The object is **detectable** at ultraviolet wavelengths.

avid

adj. characterized by enthusiasm and vigorous pursuit, especially of an interest or activity

synonym : enthusiastic, eager, fervent

(1) **avid** baseball fan, (2) have **avid** eyes

She was an **avid** reader and spent hours every day lost in a book.

denizen

n. an inhabitant or resident of a particular place; a person, animal, or plant that is frequently found or is characteristic of a particular region or environment

synonym : inhabitant, resident, occupant

(1) internet **denizen**, (2) waterfront **denizen**

The lake is known for its **denizens** of various fish species.

instruction

n. detailed direction, order, etc., on how to do or use something

synonym : education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone
Eventually, the new design will **replace** all older models.

typewriter

n. a mechanical device used for writing, consisting of type keys that, when pressed, imprint ink onto paper or other writing material, mainly used before modern computers, printers, and word processors took over

(1) **typewriter** keys, (2) electronic **typewriter**

I found an old **typewriter** at a thrift store and used it to write my novel.

poisonous

adj. containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction

synonym : toxic, venomous, deadly

(1) **poisonous** plants, (2) **poisonous** chemicals

Some species of **poisonous snakes** can be deadly to humans if bitten.

environment

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

synonym : atmosphere, surroundings, climate

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

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

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym : chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

lifeless

adj. without life; dead

synonym : inanimate, inert, motionless

(1) fall **lifeless**, (2) a **lifeless** corpse

The plant had a **lifeless** appearance, indicating that it was

not getting enough water.

viability

n. the ability of something to be successful or to continue to exist

synonym: feasibility, practicability, workability

(1) cellular **viability**, (2) **viability** of the business

The project's **viability** was uncertain, so we put it on hold.

threshold

n. the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation

synonym: anteroom, brink, verge

(1) the **threshold** between rooms, (2) high pain **threshold**

She's on the **threshold** of adulthood.

dramatically

adv. in a very impressive manner

synonym: greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

stabilize

v. to become or cause to become steady or unlikely to give way

synonym: brace, steady, secure

(1) **stabilize** prices, (2) **stabilize** blood sugar levels

The raising of interest rates **stabilizes** the inflation rate.

nasty

adj. very bad, unpleasant, or offensive

synonym: disgusting, offensive, foul

(1) a **nasty** smell, (2) receive a **nasty** surprise

The weather turned **nasty**.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

offspring

n. descendant; any immature animal or plant

synonym: children, descendants, heirs

(1) female **offspring**, (2) produce **offspring**

How many **offspring** does the average lion have?

vanish

v. disappear or stop being present or existing suddenly and completely

synonym: disappear, go away, evaporate

(1) **vanish** into thin air, (2) **vanish** amid the crowd

Two months later, my tumor **vanished** utterly.

abstract

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

synonym: conceptual, theoretical, ideational

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

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

substrate

n. a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act

(1) a silicon **substrate**, (2) **substrate** cell

Computational simulations help determine which **substrate** molecule is susceptible to change by specific enzymes.

deteriorate

v. to become worse in quality; to decline or degenerate

synonym: decline, degenerate, regress

(1) **deteriorate** at a slow pace, (2) **deteriorate** condition

The patient's health **deteriorated** rapidly after being diagnosed with the disease.

continuous

adj. occurring or existing without a pause or interruption

synonym: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

dethrone

v. to remove from a position of power or authority, especially from a reigning monarch or leader; to overthrow or supplant in a dominant role or position

synonym: depose, overthrow, unseat

(1) **dethrone** a king, (2) **dethrone** a champion

The uprising aimed to **dethrone** the corrupt dictator and establish a new government.

fundamental

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

synonym: basic, essential, entire

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

Human behavior has **fundamental** characteristics.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

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

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

norm

n. something that is regarded as usual, typical, or standard

synonym: criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

planet

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

synonym: earth, world, globe

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

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

absence

n. the fact or condition of being away from a place where they are typically anticipated to be

synonym : dearth, scarcity, lack

(1) **absence** from work, (2) a leave of **absence**

Another critical factor of child poverty is the father's **absence**.

deviate

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

synonym : stray, diverge, veer

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

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

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.

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.

visible

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

synonym : clear, observable, seeable

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

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

take-home

n. the amount of money earned after deducting taxes and other expenses; a task, assignment, or lesson that is meant to be completed or learned outside of a classroom or workplace

synonym : salary, earnings, income

(1) **take-home** pay, (2) **take-home** exam

The company provided the employees with **take-home** assignments to complete over the weekend.

mysterious

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

synonym: enigmatic, cryptic, puzzling

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

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

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.

Session 2: Spelling

- | | |
|-------------------------------------|--|
| 1. enter on the last ph__e | <i>n.</i> any stage in a series of events, change, or development |
| 2. acc_____te the car | <i>v.</i> to make something faster or earlier; to cause to develop or progress more quickly |
| 3. g__e expression | <i>n.</i> the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein. |
| 4. int_____lar communication | <i>adj.</i> relating to or located in the space between stars |
| 5. bio_____le structure | <i>n.</i> a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer |
| 6. rechargeable lithium-i_n battery | <i>n.</i> an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons |
| 7. individual ins_____on | <i>n.</i> detailed direction, order, etc., on how to do or use something |
| 8. de___e a word | <i>v.</i> to state or explain precisely the nature, scope, or meaning of something |
| 9. collaborate with co_____ues | <i>n.</i> one of a group of a coworker, especially in a profession or a business |

ANSWERS: 1. phase, 2. accelerate, 3. gene, 4. interstellar, 5. biomolecule, 6. ion, 7. instruction, 8. define, 9. colleague

10. ac____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
11. labor pop_____on *n.* the total number of people in a country, region, or location
12. a con_____ly varying mind *adv.* all the time
13. bring fo__h a beautiful vase *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
14. re____e one word with another *v.* to take the place of something
15. si_____re dish *n.* a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone
16. fl___y infant *adj.* not stiff or firm; hanging loosely
17. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
18. a narrative p__m *n.* a piece of writing that emphasizes the expression of feelings and ideas by paying particular attention to diction (sometimes rhyme), rhythm, and imagery
19. gr__d away at my work *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

ANSWERS: 10. achieve, 11. population, 12. constantly, 13. forth, 14. replace, 15. signature, 16. floppy, 17. construct, 18. poem, 19. grind

20. a con_____ly innovative enterprise *adv.* all the time
21. Ma_____n geography *adj.* of or relating to Mars or its imaginary inhabitants
22. have a st___e job *adj.* firm and steady; not easily moved, disturbed, or changed
23. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
24. ex_____e weather events *adj.* very great in amount or degree
25. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
26. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
27. human ev_____on *n.* a gradual process of transformation of living things
28. ro___t growth *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
29. dis_____te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
30. imm_____ly recall a product *adv.* now or without delay
31. electronic typ_____er *n.* a mechanical device used for writing, consisting of type keys that, when pressed, imprint ink onto paper or other writing material, mainly used before modern computers, printers, and word processors took over

ANSWERS: 20. constantly, 21. Martian, 22. stable, 23. virus, 24. extreme, 25. planet, 26. disk, 27. evolution, 28. robust, 29. distribute, 30. immediately, 31. typewriter

32. re_____e a world record *v.* to write something such as a book or speech again in a different way, usually to improve it or add new information
33. a ch_____al compound *adj.* relating to or connected with chemistry;
34. spe_____ter measurement *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials
35. an ab_____ct noun *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
36. tr__e a telephone call *v.* to find or discover someone or something that was lost
37. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
38. a li_____ss corpse *adj.* without life; dead
39. behavioral ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior
40. su_____e a plane crash *v.* to live or exist despite a dangerous event or period
41. fr_____nt use *adj.* happening constantly
42. ac_____e a new company *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself

ANSWERS: 32. rewrite, 33. chemical, 34. spectrometer, 35. abstract, 36. trace, 37. disk, 38. lifeless, 39. ecologist, 40. survive, 41. frequent, 42. acquire

43. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
44. produce of_____ng *n.* descendant; any immature animal or plant
45. hereditary mu_____on *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
46. self-int_____ion *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
47. dy_____c person *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
48. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
49. the evidence of the pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
50. nu_____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
51. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern

ANSWERS: 43. decide, 44. offspring, 45. mutation, 46. introduction, 47. dynamic, 48. construct, 49. presence, 50. nuclear, 51. random

52. become ess_____ly same *adv.* relating to the essential features or concepts of anything
53. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
54. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
55. gr__d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
56. ex_____ng news *adj.* causing a lot of interest or excitement
57. mu_____on of DNA *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
58. wh_____nd of events *n.* a very strong wind that moves rapidly in circles and causes a lot of damage
59. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
60. g__e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
61. good source of essential amino a__ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

ANSWERS: 52. essentially, 53. refer, 54. planet, 55. grind, 56. exciting, 57. mutation, 58. whirlwind, 59. indicate, 60. gene, 61. acid

62. absolutely op_____d to abortion *adj.* being completely different from something or disagreeing strongly with something
63. pop_____on change *n.* the total number of people in a country, region, or location
64. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
65. con_____us improvement *adj.* occurring or existing without a pause or interruption
66. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
67. the branch of neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
68. to sp__e *n.* a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
69. his conclusion was ob_____s *adj.* easy to see, discover or understand
70. phy_____ics tree *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
71. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

ANSWERS: 62. opposed, 63. population, 64. jet, 65. continuous, 66. analyze, 67. neuroscience, 68. spike, 69. obvious, 70. phylogenetics, 71. refer

72. pa_____ng materials *n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging
73. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
74. hi_____ht an important difference *v.* to make something prominent, mainly so that people give it more attention
75. cultural n__m *n.* something that is regarded as usual, typical, or standard
76. high pain th_____ld *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
77. the ch_____ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
78. the th_____ld between rooms *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
79. fight vi__l infections *adj.* relating to or caused by a virus
80. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
81. issue a w__t *n.* a written legal order or command

ANSWERS: 72. packaging, 73. detect, 74. highlight, 75. norm, 76. threshold, 77. chemistry, 78. threshold, 79. viral, 80. graph, 81. writ

82. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
83. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
84. re_____te the cell *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
85. young people no_____ys *adv.* at the current time, in comparison to the past
86. pr_____s law *v.* to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm
87. mys_____us object *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
88. h__e a car by the hour *v.* to give somebody a job
89. de_____e from the plan *v.* to depart from an established course or plan; to change direction or take a different route or approach
90. a ro___t appetite *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
91. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
92. aerobic or_____sm *n.* a tiny living thing
93. de_____ne a champion *v.* to remove from a position of power or authority, especially from a reigning monarch or leader; to overthrow or supplant in a dominant role or position

ANSWERS: 82. manufacture, 83. lab, 84. replicate, 85. nowadays, 86. profess, 87. mysterious, 88. hire, 89. deviate, 90. robust, 91. generation, 92. organism, 93. dethrone

94. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
95. typ_____er keys *n.* a mechanical device used for writing, consisting of type keys that, when pressed, imprint ink onto paper or other writing material, mainly used before modern computers, printers, and word processors took over
96. bombs fell at ra___m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
97. a barely det_____le change *adj.* capable of being discovered or identified
98. pr_____e analyses *adj.* sharply exact or accurate or delimited
99. gl__n emission *n.* a subatomic particle that binds quarks together in the nucleus of an atom, thus mediating the strong nuclear force
100. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
101. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
102. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 94. hack, 95. typewriter, 96. random, 97. detectable, 98. precise, 99. gluon, 100. biology, 101. mystery, 102. stick

103. re_____te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
104. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
105. ess_____ly correct *adv.* relating to the essential features or concepts of anything
106. detect a vi___l code *adj.* relating to or caused by a virus
107. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something
108. gravel se_____nt *n.* the substance that forms a solid layer at the bottom of the liquid
109. i_n channel *n.* an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons
110. int_____lar space *adj.* relating to or located in the space between stars
111. det_____le by the human ear *adj.* capable of being discovered or identified
112. su_____e a blizzard *v.* to live or exist despite a dangerous event or period
113. n___m of action *n.* something that is regarded as usual, typical, or standard

ANSWERS: 103. replicate, 104. bacteria, 105. essentially, 106. viral, 107. instruction, 108. sediment, 109. ion, 110. interstellar, 111. detectable, 112. survive, 113. norm

114. group of or_____sms *n.* a tiny living thing
115. in_____za B strain *n.* (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics
116. less fa__y meat *adj.* containing a lot of fat
117. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
118. d__b creatures *adj.* lacking the power of speech, unable to speak; stupid, or lacking intelligence
119. co_____ed of the idea *adj.* completely certain about something; having a strong belief or conviction in a particular religion
120. fl___y hat *adj.* not stiff or firm; hanging loosely
121. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
122. ac_____e knowledge *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself
123. st___n our eyes *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups
124. theoretical ph_____st *n.* a scientist who specializes in the field of physics

ANSWERS: 114. organism, 115. influenza, 116. fatty, 117. experiment, 118. dumb, 119. convinced, 120. floppy, 121. discovery, 122. acquire, 123. strain, 124. physicist

125. p__m to the dead *n.* a piece of writing that emphasizes the expression of feelings and ideas by paying particular attention to diction (sometimes rhyme), rhythm, and imagery
126. write him an answer imm_____ly *adv.* now or without delay
127. an a__d reaction *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
128. an al_____et of manual signs *n.* a character set that includes letters and is used to write a language
129. co___r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
130. a theoretical concept in neu_____nce *n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
131. public ann_____ent *n.* a public statement or declaration, often made in writing or through the media, that conveys important information or news
132. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
133. ob_____s reasons *adj.* easy to see, discover or understand
134. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 125. poem, 126. immediately, 127. acid, 128. alphabet, 129. confer, 130. neuroscience, 131. announcement, 132. analyze, 133. obvious, 134. mystery

135. internet de_____n *n.* an inhabitant or resident of a particular place; a person, animal, or plant that is frequently found or is characteristic of a particular region or environment
136. his research area of
con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
137. ev_____on theory *n.* a gradual process of transformation of living things
138. su_____e you're right *v.* to think that something is likely to be actual or possible
139. the_____al physicist *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
140. come into co_____on with my friend *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
141. con_____ed plot *adj.* extraordinarily complicated and hard to understand
142. cr_____l analyses *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
143. tr__e back to medieval times *v.* to find or discover someone or something that was lost
144. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 135. denizen, 136. concentration, 137. evolution, 138. suppose, 139. theoretical, 140. collision, 141. convoluted, 142. crystal, 143. trace, 144. improvisation

145. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
146. un_____al life *adj.* existing or affecting everywhere or everyone
147. laws of qu_____m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
148. renal st____s *n.* a state of stillness or immobility, often used in a medical context to refer to a lack of change or progress in a condition or disease
149. the nu_____s of a team *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
150. h__e a guide *v.* to give somebody a job
151. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
152. Ma_____n surface *adj.* of or relating to Mars or its imaginary inhabitants
153. dispel do__ts *n.* a feeling of being uncertain about something, especially about how good or accurate it is
154. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected

ANSWERS: 145. improvisation, 146. universal, 147. quantum, 148. stasis, 149. nucleus, 150. hire, 151. backward, 152. Martian, 153. doubt, 154. fundamental

155. em___o cloning *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
156. animal en_____ls *n.* the internal organs of an animal or human body; the visceral organs, especially those in the abdominal cavity or gut; the inner workings or essence of something
157. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
158. liquid cr_____l *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
159. high fr_____cy *n.* an ordered array of colors into which a light beam can be split
160. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
161. waterfront de_____n *n.* an inhabitant or resident of a particular place; a person, animal, or plant that is frequently found or is characteristic of a particular region or environment
162. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 155. embryo, 156. entrails, 157. accelerate, 158. crystal, 159. frequency, 160. spectrum, 161. denizen, 162. structure

163. walk ba____rd *adv.* at, to, or toward the direction or place that is behind or rear
164. ext_____on prevention *n.* the complete disappearance of a species from the earth
165. bio_____ures detection *n.* distinctive chemical or physical features that indicate the presence of past or current life
166. en_____ls of the earth *n.* the internal organs of an animal or human body; the visceral organs, especially those in the abdominal cavity or gut; the inner workings or essence of something
167. destruction of human em____os *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
168. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
169. treat the in_____on with antibiotics *n.* a condition in which pathogenic microorganisms or viruses have entered the body
170. in st___e condition *adj.* firm and steady; not easily moved, disturbed, or changed
171. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
172. gl__n interaction *n.* a subatomic particle that binds quarks together in the nucleus of an atom, thus mediating the strong nuclear force

ANSWERS: 163. backward, 164. extinction, 165. biosignature, 166. entrails, 167. embryo, 168. reproduce, 169. infection, 170. stable, 171. evolve, 172. gluon

173. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
174. in_____e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
175. wall s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
176. an epidemic outbreak of in_____za *n.* (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics
177. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
178. a na__y smell *adj.* very bad, unpleasant, or offensive
179. co_____t car *n.* an idea or principle associated with something abstract
180. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
181. ta_____me exam *n.* the amount of money earned after deducting taxes and other expenses; a task, assignment, or lesson that is meant to be completed or learned outside of a classroom or workplace

ANSWERS: 173. experiment, 174. inspire, 175. stud, 176. influenza, 177. complicated, 178. nasty, 179. concept, 180. lab, 181. take-home

182. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
183. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
184. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
185. er__ed the files *v.* to remove something completely, especially by rubbing it
186. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
187. ro___t fuel *n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon
188. principles of un_____al design *adj.* existing or affecting everywhere or everyone
189. a w__t of summons *n.* a written legal order or command
190. important dis_____on *n.* a difference or contrast between similar things or people
191. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 182. stick, 183. germ, 184. decide, 185. erase, 186. achieve, 187. rocket, 188. universal, 189. writ, 190. distinction, 191. computation

192. the science of ge_____cs *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
193. su_____e beforehand *v.* to think that something is likely to be actual or possible
194. bio_____ures discovery *n.* distinctive chemical or physical features that indicate the presence of past or current life
195. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
196. draw a dis_____on *n.* a difference or contrast between similar things or people
197. r__y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
198. phe_____ine hydroxylase *n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)
199. former co_____ue *n.* one of a group of a coworker, especially in a profession or a business
200. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
201. st_____ze prices *v.* to become or cause to become steady or unlikely to give way
202. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.

ANSWERS: 192. genetics, 193. suppose, 194. biosignature, 195. visible, 196. distinction, 197. rely, 198. phenylalanine, 199. colleague, 200. evolutionary, 201. stabilize, 202. concentration

203. the su____e commander	<i>adj.</i> highest in rank, level, or importance
204. ex____ng football player	<i>adj.</i> causing a lot of interest or excitement
205. the surface of the co__t	<i>n.</i> a celestial object consisting of a nucleus of ice and dust that goes around the sun
206. con_____ed legal language	<i>adj.</i> extraordinarily complicated and hard to understand
207. st____s in development	<i>n.</i> a state of stillness or immobility, often used in a medical context to refer to a lack of change or progress in a condition or disease
208. natural phe_____on	<i>n.</i> something that exists and can be perceptible, especially one that is not fully understood
209. engineering und_____ate	<i>n.</i> a student who is studying for their first degree at a university or other higher education institution
210. nonmetallic el_____ts	<i>n.</i> a fundamental or essential part of something
211. chaotic env_____nt	<i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live
212. man_____re an enzyme	<i>v.</i> to make goods in large numbers, usually in a factory using machines
213. female of_____ng	<i>n.</i> descendant; any immature animal or plant
214. brink of ext_____on	<i>n.</i> the complete disappearance of a species from the earth

ANSWERS: 203. supreme, 204. exciting, 205. comet, 206. convoluted, 207. stasis, 208. phenomenon, 209. undergraduate, 210. element, 211. environment, 212. manufacture, 213. offspring, 214. extinction

215. de____ne a king *v.* to remove from a position of power or authority, especially from a reigning monarch or leader; to overthrow or supplant in a dominant role or position
216. gl____e supplement *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
217. ex____e sports *adj.* very great in amount or degree
218. an alt____ve plan *n.* one of two or more available possibilities or choice
219. a bacterial in____on *n.* a condition in which pathogenic microorganisms or viruses have entered the body
220. the great di____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
221. art____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
222. two-ph__e structure *n.* any stage in a series of events, change, or development
223. d__t road *n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
224. there is no other alt____ve *n.* one of two or more available possibilities or choice

ANSWERS: 215. dethrone, 216. glycine, 217. extreme, 218. alternative, 219. infection, 220. discovery, 221. artificial, 222. phase, 223. dirt, 224. alternative

225. a silicon su_____te *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
226. in__e conversation *adj.* lacking significance, meaning, or substance; silly or frivolous in nature; lacking intelligence or understanding
227. no do__t about the news *n.* a feeling of being uncertain about something, especially about how good or accurate it is
228. int_____ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
229. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
230. co_____ed citizen *adj.* feeling worry or interest about something; showing interest or attention
231. toxic ch_____als *adj.* relating to or connected with chemistry;
232. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
233. in_____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
234. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 225. substrate, 226. inane, 227. doubt, 228. introduction, 229. laboratory, 230. concerned, 231. chemical, 232. artificial, 233. inspire, 234. bacteria

235. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
236. co___r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
237. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
238. det_____te at a slow pace *v.* to become worse in quality; to decline or degenerate
239. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
240. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
241. dis_____sh man from the other animals *v.* to notice or understand the difference between two people or things
242. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
243. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
244. de_____e from the norm *v.* to depart from an established course or plan; to change direction or take a different route or approach

ANSWERS: 235. virus, 236. confer, 237. capture, 238. deteriorate, 239. spectrum, 240. develop, 241. distinguish, 242. complexity, 243. structure, 244. deviate

245. receive a na__y surprise *adj.* very bad, unpleasant, or offensive
246. biodegradable pa_____ng *n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging
247. cellular vi_____ty *n.* the ability of something to be successful or to continue to exist
248. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
249. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
250. dis_____sh these two things *v.* to notice or understand the difference between two people or things
251. fr_____cy band *n.* an ordered array of colors into which a light beam can be split
252. form a nu_____s *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
253. mea_____le data *adj.* able to be measured, quantified, or assessed in some way
254. in__e remark *adj.* lacking significance, meaning, or substance; silly or frivolous in nature; lacking intelligence or understanding
255. vi_____e stars *adj.* capable of being seen; or open to easy view

ANSWERS: 245. nasty, 246. packaging, 247. viability, 248. fundamental, 249. laboratory, 250. distinguish, 251. frequency, 252. nucleus, 253. measurable, 254. inane, 255. visible

256. manually op_____e a machine *v.* to work in a particular way; to supervise something
257. po_____us chemicals *adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction
258. as___e quality *v.* to give confidence or reassurance to someone; to convince or guarantee someone that something will happen or that something is true
259. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
260. va___h amid the crowd *v.* disappear or stop being present or existing suddenly and completely
261. qu__k physics *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
262. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
263. po_____us plants *adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction

ANSWERS: 256. operate, 257. poisonous, 258. assure, 259. destroy, 260. vanish, 261. quark, 262. institute, 263. poisonous

264. ro____y explain my idea *adv.* approximately but not precisely; with a violent manner
265. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
266. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
267. pri_____al gas *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
268. va___h into thin air *v.* disappear or stop being present or existing suddenly and completely
269. ro___t attack against the enemy *n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon
270. det_____te condition *v.* to become worse in quality; to decline or degenerate
271. he confessed dra_____lly *adv.* in a very impressive manner
272. talented ph_____st *n.* a scientist who specializes in the field of physics
273. enc_____dia entry *n.* a comprehensive reference work containing articles on a wide range of subjects or numerous aspects of a particular field or discipline, usually arranged alphabetically or thematically
274. protein bio_____le *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

ANSWERS: 264. roughly, 265. computation, 266. mathematics, 267. primordial, 268.

vanish, 269. rocket, 270. deteriorate, 271. dramatically, 272. physicist, 273.
encyclopedia, 274. biomolecule

275. a con_____us row of warehouses *adj.* occurring or existing without a pause or interruption
276. vice-pr_____nt for finance *n.* the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.
277. a dy_____c market *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
278. a st____n of bacillus *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups
279. persons co_____ed *adj.* feeling worry or interest about something; showing interest or attention
280. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
281. the antiparticle of a qu__k *n.* a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet
282. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire

ANSWERS: 275. continuous, 276. president, 277. dynamic, 278. strain, 279. concerned, 280. evolve, 281. quark, 282. amazing

283. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
284. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
285. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
286. hi_____ht a string in red *v.* to make something prominent, mainly so that people give it more attention
287. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
288. b__s against a big company *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
289. pro_____on technology *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
290. probabilistic qu_____m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
291. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
292. horse s__d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

ANSWERS: 283. graph, 284. definition, 285. nuclear, 286. highlight, 287. jet, 288.

bias, 289. propulsion, 290. quantum, 291. mathematics, 292. stud

293. am__o compound	<i>n.</i> compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH ₂) that combine to make protein
294. call fo__h demand	<i>adv.</i> forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
295. historical phe_____on	<i>n.</i> something that exists and can be perceptible, especially one that is not fully understood
296. cognitive com_____ty	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand
297. se_____nt runoff	<i>n.</i> the substance that forms a solid layer at the bottom of the liquid
298. de___t smuggling across borders	<i>v.</i> to find or recognize something, especially something difficult to see, hear, etc.
299. estimate pr_____e costs	<i>adj.</i> sharply exact or accurate or delimited
300. new design el_____ts	<i>n.</i> a fundamental or essential part of something
301. ro_____y speaking	<i>adv.</i> approximately but not precisely; with a violent manner
302. inn_____on leader	<i>n.</i> the creation of a new device or process resulting from study and experimentation
303. ab_____ct science	<i>adj.</i> based on general ideas, feelings, or qualities and not on any a physical or concrete existence

ANSWERS: 293. amino, 294. forth, 295. phenomenon, 296. complexity, 297. sediment, 298. detect, 299. precise, 300. element, 301. roughly, 302. innovation, 303. abstract

304. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
305. online enc_____dia *n.* a comprehensive reference work containing articles on a wide range of subjects or numerous aspects of a particular field or discipline, usually arranged alphabetically or thematically
306. mys_____us stranger *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
307. nuclear pro_____on *n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means
308. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
309. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
310. phe_____ine deficiency *n.* an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

ANSWERS: 304. amazing, 305. encyclopedia, 306. mysterious, 307. propulsion, 308. germ, 309. process, 310. phenylalanine

311. the evo_____ary process *adj.* relating to or denoting how living things develop or change from earlier forms
312. fa__y acid *adj.* containing a lot of fat
313. su_____te cell *n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
314. a leave of ab_____e *n.* the fact or condition of being away from a place where they are typically anticipated to be
315. me_____te impact *n.* a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space
316. struck d__b *adj.* lacking the power of speech, unable to speak; stupid, or lacking intelligence
317. biogeographical phy_____ics *n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
318. justice of the su_____e court *adj.* highest in rank, level, or importance
319. vi_____ty of the business *n.* the ability of something to be successful or to continue to exist
320. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape

ANSWERS: 311. evolutionary, 312. fatty, 313. substrate, 314. absence, 315. meteorite, 316. dumb, 317. phylogenetics, 318. supreme, 319. viability, 320. capture

321. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
322. dis_____te video content *v.* to give something to a large number of individuals, or to spread or furnish something
323. arrive and de___t on time *v.* to go away or leave, especially to start a journey
324. pr_____s innocence *v.* to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm
325. co_____on detection *n.* an instance of two or more objects or entities crashing into each other, usually resulting in damage, impact, or conflict
326. the_____al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
327. have a__d eyes *adj.* characterized by enthusiasm and vigorous pursuit, especially of an interest or activity
328. re_____e a phone *v.* to take the place of something
329. st_____ze blood sugar levels *v.* to become or cause to become steady or unlikely to give way
330. p__t a revolution *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

ANSWERS: 321. rely, 322. distribute, 323. depart, 324. profess, 325. collision, 326. theoretical, 327. avid, 328. replace, 329. stabilize, 330. plot

331. as___e safety *v.* to give confidence or reassurance to someone; to convince or guarantee someone that something will happen or that something is true
332. research in_____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
333. am__o acid *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein
334. co__t Halley *n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun
335. pr_____nt emeritus *n.* the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.
336. gl_____e metabolism *n.* an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms
337. me_____te shower *n.* a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space

ANSWERS: 331. assure, 332. institute, 333. amino, 334. comet, 335. president, 336. glycine, 337. meteorite

338. ta_____me pay *n.* the amount of money earned after deducting taxes and other expenses; a task, assignment, or lesson that is meant to be completed or learned outside of a classroom or workplace
339. co_____ed criminal *adj.* completely certain about something; having a strong belief or conviction in a particular religion
340. to prevent blood sugar sp__es *n.* a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something
341. the ca_____yl end of the molecule *n.* a functional group consisting of a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group, commonly found in organic compounds
342. not to be seen no_____ys *adv.* at the current time, in comparison to the past
343. have a b__s toward socialism *n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment
344. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
345. artist's si_____re *n.* a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone

ANSWERS: 338. take-home, 339. convinced, 340. spike, 341. carboxyl, 342. nowadays, 343. bias, 344. indicate, 345. signature

346. di_____e settlement *n.* a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one
347. ab_____e from work *n.* the fact or condition of being away from a place where they are typically anticipated to be
348. de_____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
349. amino ca_____yl *n.* a functional group consisting of a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group, commonly found in organic compounds
350. er__e a memory *v.* to remove something completely, especially by rubbing it
351. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
352. ann_____ent date *n.* a public statement or declaration, often made in writing or through the media, that conveys important information or news
353. pri_____al forms of life *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
354. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
355. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 346. dispute, 347. absence, 348. destroy, 349. carboxyl, 350. erase, 351. dramatically, 352. announcement, 353. primordial, 354. definition, 355. biology

356. fall li____ss *adj.* without life; dead
357. ge____cs discrimination *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
358. letters of an al____et *n.* a character set that includes letters and is used to write a language
359. re____e a composition *v.* to write something such as a book or speech again in a different way, usually to improve it or add new information
360. fr____nt absence *adj.* happening constantly
361. two op____d characters *adj.* being completely different from something or disagreeing strongly with something
362. learn new co____ts *n.* an idea or principle associated with something abstract
363. de____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
364. p__t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
365. optical spe____ter *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

ANSWERS: 356. lifeless, 357. genetics, 358. alphabet, 359. rewrite, 360. frequent, 361. opposed, 362. concept, 363. develop, 364. plot, 365. spectrometer

366. op____e 24 hours a day *v.* to work in a particular way; to supervise something
367. his majestic pr____ce *n.* the fact or state that someone or something exists, occurs, or is present
368. a__d baseball fan *adj.* characterized by enthusiasm and vigorous pursuit, especially of an interest or activity
369. d__t track *n.* soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
370. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
371. professor of ch_____ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
372. a legal di____e over the title *n.* a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one
373. de___e my position *v.* to state or explain precisely the nature, scope, or meaning of something
374. forestry ec_____st *n.* a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

ANSWERS: 366. operate, 367. presence, 368. avid, 369. dirt, 370. complicated, 371. chemistry, 372. dispute, 373. define, 374. ecologist

375. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
376. de___t from the faith *v.* to go away or leave, especially to start a journey
377. und_____ate course *n.* a student who is studying for their first degree at a university or other higher education institution
378. mea_____le achievement *adj.* able to be measured, quantified, or assessed in some way
379. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
380. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
381. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
382. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
383. economic wh_____nd *n.* a very strong wind that moves rapidly in circles and causes a lot of damage

ANSWERS: 375. environment, 376. depart, 377. undergraduate, 378. measurable, 379. reproduce, 380. process, 381. hack, 382. generation, 383. whirlwind

384. cutting-edge inn_____on

n. the creation of a new device or process resulting from study and experimentation

ANSWERS: 384. innovation

Session 3: Fill in the Blanks

1. We should always be prepared to _____ talented recruits.
v. to give somebody a job
2. The era of the industrial revolution was a crucial _____ of history.
n. any stage in a series of events, change, or development
3. I need to _____ most of the essay with feedback from my teacher.
v. to write something such as a book or speech again in a different way, usually to improve it or add new information
4. She had to _____ the coffee beans before making a fresh cup.
v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
5. The chef used the pig's _____ to make a traditional dish from his homeland.
n. the internal organs of an animal or human body; the visceral organs, especially those in the abdominal cavity or gut; the inner workings or essence of something
6. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
7. She was an _____ reader and spent hours every day lost in a book.
adj. characterized by enthusiasm and vigorous pursuit, especially of an interest or activity
8. Absolute zero is the lowest _____ temperature.
adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

ANSWERS: 1. hire, 2. phase, 3. rewrite, 4. grind, 5. entrails, 6. concept, 7. avid, 8. theoretical

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

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

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

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

11. 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

12. His estate was _____ to his sons.

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

13. In junior high school, we had to dissect a frog in _____ class.

n. the scientific study of life and the natural processes of living things

14. The oscillator hunts for the correct _____.

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

15. To advance this discussion, we must _____ "success" rigorously.

v. to state or explain precisely the nature, scope, or meaning of something

16. They study the _____ of the universe.

n. a gradual process of transformation of living things

ANSWERS: 9. random, 10. capture, 11. mystery, 12. distributed, 13. biology, 14. frequency, 15. define, 16. evolution

17. This exam requires excellent _____ to pass.
- n.* the ability to focus all your time and energy on one thing without thinking about anything else.
18. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
19. The lake is known for its _____ of various fish species.
- n.* an inhabitant or resident of a particular place; a person, animal, or plant that is frequently found or is characteristic of a particular region or environment
20. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
21. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
22. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
- n.* a workplace for the conduct of scientific research; a laboratory
23. The research institute allocated a lot of money to study the cause and prevention of _____.
- n.* (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics
24. A rainbow is a natural _____.
- n.* something that exists and can be perceptible, especially one that is not fully understood

ANSWERS: 17. concentration, 18. process, 19. denizens, 20. improvisation, 21. chemical, 22. lab, 23. influenza, 24. phenomenon

25. The _____ for the fragile items was made of sturdy materials and could withstand rough handling during shipping.
- n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging
26. Radiation often promotes genetic _____ in plants and animals.
- n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
27. Our university is famous for its professors, who are well-versed in behavioral _____.
- n.* the scientific study of the function, structure, and disorder of the brain and the nervous system
28. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
29. A defective _____ is responsible for the disease.
- n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
30. Another critical factor of child poverty is the father's _____.
- n.* the fact or condition of being away from a place where they are typically anticipated to be
31. This device can more accurately detect _____ pathogens.
- adj.* relating to or caused by a virus

ANSWERS: 25. packaging, 26. mutations, 27. neuroscience, 28. develop, 29. gene, 30. absence, 31. viral

32. The mobile application industry is _____ changing.

adv. all the time

33. Dictators of the past often had the erroneous idea of a pure racial _____.

n. a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

34. A great _____ is a fountain forever overflowing with the waters of wisdom and delight.

n. a piece of writing that emphasizes the expression of feelings and ideas by paying particular attention to diction (sometimes rhyme), rhythm, and imagery

35. The unique style of this martial arts _____ many action film producers.

v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

36. These birds can only _____ in temperate climates.

v. to live or exist despite a dangerous event or period

37. I'm strongly _____ to that plan.

adj. being completely different from something or disagreeing strongly with something

38. The company provided the employees with _____ assignments to complete over the weekend.

n. the amount of money earned after deducting taxes and other expenses; a task, assignment, or lesson that is meant to be completed or learned outside of a classroom or workplace

ANSWERS: 32. constantly, 33. strain, 34. poem, 35. inspired, 36. survive, 37. opposed, 38. take-home

39. She researched gender _____ in politics.

- n.* a strong feeling in favor of or against one group of people, an idea, or thing, often not based on fair judgment

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

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

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

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

42. You should keep away from _____ foods.

- adj.* containing a lot of fat

43. Scientists are searching for _____ on other planets that could indicate the presence of life.

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

44. The club _____ does not have absolute power.

- n.* the leader of a republic, for example, the US; the person in charge of the organization such as a company, university, club, etc.

45. The _____ of the dinosaurs is thought to have been caused by an asteroid impact.

- n.* the complete disappearance of a species from the earth

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

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

ANSWERS: 39. bias, 40. stick, 41. germ, 42. fatty, 43. biosignatures, 44. president, 45. extinction, 46. primordial

47. Natural selection is an essential _____ in Darwin's theory of evolution.

n. a fundamental or essential part of something

48. The speaker's _____ comments made the audience lose interest in the presentation.

adj. lacking significance, meaning, or substance; silly or frivolous in nature; lacking intelligence or understanding

49. An infected person in the hospital will likely pass the _____ to others.

n. a tiny infectious organic material that causes disease in people, animals, and plants

50. This company was granted a patent for its _____ resin manufacturing process.

n. compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH₂) that combine to make protein

51. _____ prevalent in hospitals are often resistant to antibiotics.

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

52. Mercury is the closest _____ to the sun.

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

53. This study _____ four different ways to run a business.

v. to notice or understand the difference between two people or things

54. The teacher attempted to _____ the root cause of our mistake.

v. to think about in-depth and evaluate to discover essential features or meaning

ANSWERS: 47. element, 48. inane, 49. virus, 50. amino, 51. Bacteria, 52. planet, 53. distinguished, 54. analyze

55. The invention of the camera triggered the development of _____ painting.
adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence
56. Many countries have now agreed to a treaty banning the use of _____ weapons.
adj. of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
57. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
58. The patient's _____ in the hospital was concerning to the doctors.
n. a state of stillness or immobility, often used in a medical context to refer to a lack of change or progress in a condition or disease
59. Doctors are gradually coming around to the idea of using _____ medicines.
n. one of two or more available possibilities or choice
60. He _____ hypotheses that no mathematician has ever imagined before.
v. to build or create something; to assemble or combine different parts to form something whole
61. He bought a new _____ to attach the strap to his watch.
n. a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

ANSWERS: 55. abstract, 56. nuclear, 57. achieve, 58. stasis, 59. alternative, 60. constructs, 61. stud

62. _____ is the start, not the end, of intelligence.

n. a feeling of being uncertain about something, especially about how good or accurate it is

63. How many _____ does the average lion have?

n. descendant; any immature animal or plant

64. The ____ flew over the ocean at high speed, reaching its destination in hours.

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

65. The sprinter has a _____ way of running.

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

66. She couldn't _____ whether to order the pizza or the pasta for dinner.

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

67. There is very little water in the _____ atmosphere.

adj. of or relating to Mars or its imaginary inhabitants

68. The public is _____ that the prime minister has committed fraud.

adj. completely certain about something; having a strong belief or conviction in a particular religion

69. The majority of synthetic vitamins are _____ from oil.

v. to make goods in large numbers, usually in a factory using machines

ANSWERS: 62. Doubt, 63. offspring, 64. jet, 65. dynamic, 66. decide, 67. Martian, 68. convinced, 69. manufactured

70. He made a _____ mistake and forgot to submit the report on time.

adj. lacking the power of speech, unable to speak; stupid, or lacking intelligence

71. The company sets _____ goals to track progress and ensure success.

adj. able to be measured, quantified, or assessed in some way

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

n. a written legal order or command

73. The experiment yielded _____ results that support his theory.

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

74. He strove to memorize the Hebrew _____.

n. a character set that includes letters and is used to write a language

75. Parallel lines are, by _____ lines on the same plane that never cross.

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

76. Eventually, the new design will _____ all older models.

v. to take the place of something

77. The weather turned _____.

adj. very bad, unpleasant, or offensive

78. Some species of _____ can be deadly to humans if bitten.

adj. containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction

ANSWERS: 70. dumb, 71. measurable, 72. writ, 73. robust, 74. alphabet, 75. definition, 76. replace, 77. nasty, 78. poisonous snakes

79. She's on the _____ of adulthood.

n. the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation

80. _____ a society is an organism.

adv. relating to the essential features or concepts of anything

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

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

82. I can't see any _____ between these two concepts.

n. a difference or contrast between similar things or people

83. The _____ fragments were collected and sent to a laboratory for analysis.

n. a solid object originating in outer space that reaches the Earth's surface without completely vaporizing in the atmosphere; a rock that has fallen from space

84. Her research team made an important _____.

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

85. Let's _____ the origins of some familiar foreign words.

v. to find or discover someone or something that was lost

86. The protein contained a high _____ content, making it vital for specific metabolic reactions.

n. an amino acid, often represented by the symbol "G," that is an essential building block of proteins and is involved in various biological processes in living organisms

ANSWERS: 79. threshold, 80. Essentially, 81. quantum, 82. distinction, 83. meteorite, 84. discovery, 85. trace, 86. glycine

87. They needed further _____ to perform their duties efficiently.
n. detailed direction, order, etc., on how to do or use something
88. He is familiar with _____ and biology.
n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions
89. This blog offers a variety of tips for _____ everyday life.
v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
90. The data _____ that the company's profits have steadily increased over the past quarter.
v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
91. What do you _____ the culprit's motive was?
v. to think that something is likely to be actual or possible
92. Human behavior has _____ characteristics.
adj. forming an essential base or core from which everything else develops or is affected
93. Hospitals must meet various standards to prevent nosocomial _____.
n. a condition in which pathogenic microorganisms or viruses have entered the body
94. The government tried to _____ the commercialization of this development.
v. to make something faster or earlier; to cause to develop or progress more quickly

ANSWERS: 87. instruction, 88. chemistry, 89. hacking, 90. indicates, 91. suppose, 92. fundamental, 93. infections, 94. accelerate

95. The _____ group is a functional group that consists of a carbon atom double-bonded to an oxygen atom and a single-bonded to a hydroxyl group.
- n.* a functional group consisting of a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group, commonly found in organic compounds
96. By dividing and creating copies of themselves, bacteria _____.
- v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
97. The content is _____ and informative for me.
- adj.* sharply exact or accurate or delimited
98. The heavy snow has been _____ since last morning.
- adj.* occurring or existing without a pause or interruption
99. We _____ before the temperature fell below zero.
- v.* to go away or leave, especially to start a journey
100. The lawyer confirmed that the _____ on the contract was genuine.
- n.* a person's name, often handwritten, written in a distinctive way as a form of identification or authorization; a distinctive feature or characteristic that is a hallmark or identifying mark of something or someone
101. The experiment was _____ several times to ensure accuracy.
- v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
102. This machine is too difficult to _____ for me.
- v.* to work in a particular way; to supervise something

ANSWERS: 95. carboxyl, 96. reproduce, 97. precise, 98. continuous, 99. departed, 100. signature, 101. replicated, 102. operate

103. Children _____ language at a fantastic rate.

- v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself

104. The _____ launch platform is visible from this hill.

- n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon

105. The vegetarian burger was an _____ that quickly spread to the United Kingdom.

- n.* the creation of a new device or process resulting from study and experimentation

106. This region has many _____ offering higher education.

- n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

107. Einstein was an outstanding and famous _____ of the 20th century.

- n.* a scientist who specializes in the field of physics

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

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

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

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

110. Babies heavily _____ on others for food.

- v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

ANSWERS: 103. acquire, 104. rocket, 105. innovation, 106. institutes, 107. physicist, 108. forth, 109. sediments, 110. rely

111. I am _____ about the safety of the children playing in the park.

adj. feeling worry or interest about something; showing interest or attention

112. Please _____ to the instruction manual for further assistance.

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

113. A suspension order from the court is effective _____.

adv. now or without delay

114. The _____ intelligence system has revolutionized the way we live and work.

adj. not natural and made by human beings; not real but produced to resemble something

115. A vast _____ chandelier glittered brightly above us.

n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica

116. The increased concentrat____ of hydrogen ions in an aqueous solution makes it more acidic.

n. an atom or molecule that has a positive or negative electrical charge caused by its losing or gained one or more electrons

117. I decided to seek counseling on the advice of my _____.

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

118. He attempted to _____ the misspelled word.

v. to remove something completely, especially by rubbing it

ANSWERS: 111. concerned, 112. refer, 113. immediately, 114. artificial, 115. crystal, 116. ion, 117. colleague, 118. erase

119. I want to _____ you that you have my full support.

- v.* to give confidence or reassurance to someone; to convince or guarantee someone that something will happen or that something is true

120. His heartaches are less _____ now.

- adj.* happening constantly

121. The path to a solid online _____ necessitates a high technical ability.

- n.* the fact or state that someone or something exists, occurs, or is present

122. The spacecraft's _____ system helped it travel through space.

- n.* the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

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

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

124. The patient's health _____ rapidly after being diagnosed with the disease.

- v.* to become worse in quality; to decline or degenerate

125. During pregnancy, the stomach generates less _____ than usual.

- n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials

126. The _____ bright tail could be seen in the night sky.

- n.* a celestial object consisting of a nucleus of ice and dust that goes around the sun

ANSWERS: 119. assure, 120. frequent, 121. presence, 122. propulsion, 123. deviate, 124. deteriorated, 125. acid, 126. comet's

127. DNA is a complex _____ that contains the genetic information of an organism.
- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
128. The project's _____ made it difficult for the team to complete it on time.
- n.* the state or quality of being complicated or intricate and difficult to understand
129. A diversified plant species generally enhances beneficial _____ populations.
- n.* a tiny living thing
130. His _____ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
131. Computational simulations help determine which _____ molecule is susceptible to change by specific enzymes.
- n.* a substance or layer from which an organism grows and lives and by which an organism is supported; a substance on which an enzyme or ferment act
132. The findings of the experiment were both _____ and unexpected.
- adj.* causing a lot of interest or excitement
133. The project's _____ was uncertain, so we put it on hold.
- n.* the ability of something to be successful or to continue to exist
134. The younger _____ has different values and beliefs than the older one.
- n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity

ANSWERS: 127. biomolecule, 128. complexity, 129. organism, 130. experiments, 131. substrate, 132. exciting, 133. viability, 134. generation

135. 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

136. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

137. People can clone a sheep _____.

adv. at the current time, in comparison to the past

138. The garden was filled with _____ and needed to be tilled before planting.

n. soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock

139. This device displayed the speech _____ spectrographically.

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

140. The uprising aimed to _____ the corrupt dictator and establish a new government.

v. to remove from a position of power or authority, especially from a reigning monarch or leader; to overthrow or supplant in a dominant role or position

141. The introduction _____ the speaker's distinguished career as a consultant

v. to make something prominent, mainly so that people give it more attention

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

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

ANSWERS: 135. undergraduate, 136. extreme, 137. nowadays, 138. dirt, 139. spectrum, 140. dethrone, 141. highlighted, 142. environment

143. I found an old _____ at a thrift store and used it to write my novel.

- n.* a mechanical device used for writing, consisting of type keys that, when pressed, imprint ink onto paper or other writing material, mainly used before modern computers, printers, and word processors took over

144. Life expectancy has grown _____ this century.

- adv.* in a very impressive manner

145. He did _____ pen-and-ink drawings in just a few days.

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

146. Eyeless fish _____ in dark caves.

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

147. The raising of interest rates _____ the inflation rate.

- v.* to become or cause to become steady or unlikely to give way

148. Many bookshops no longer carry printed _____ but some libraries still hold onto their collections.

- n.* a comprehensive reference work containing articles on a wide range of subjects or numerous aspects of a particular field or discipline, usually arranged alphabetically or thematically

149. The _____ pleasure of life is the conviction that we are loved.

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

150. The building was _____ in the fire and had to be rebuilt.

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

ANSWERS: 143. typewriter, 144. dramatically, 145. complicated, 146. evolved, 147. stabilizes, 148. encyclopedias, 149. supreme, 150. destroyed

151. The security camera has _____ four intruders.

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

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

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

153. He is a specialist in the _____ of aging.

n. the branch of biology that studies genes, genetic variation, and heredity in organisms

154. The company made an _____ about its new product at a press conference.

n. a public statement or declaration, often made in writing or through the media, that conveys important information or news

155. Animal protection groups call for an end to animal testing in a _____.

n. a workplace for doing scientific research or teaching science; a lab

156. The Big Bang theory states that _____ plasma filled the entire universe before matter as we know it was created.

n. a type of elementary particle and a fundamental constituent of matter that make up the heavier elementary particles, such as protons, neutrons, etc.; fresh unripened cheese of a smooth texture made from pasteurized milk, a starter, and rennet

157. He _____ his love for her every day, showering her with gifts and affection.

v. to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm

158. The puppy's ears were still too long and _____ for its head.

adj. not stiff or firm; hanging loosely

ANSWERS: 151. detected, 152. backward, 153. genetics, 154. announcement, 155. laboratory, 156. quark-gluon, 157. professes, 158. floppy

159. In just four years, the _____ has doubled.

n. the total number of people in a country, region, or location

160. The _____ over the ownership of the land has been ongoing for years.

n. a disagreement, argument, or controversy between two people, groups, or countries, especially a formal one

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

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

162. He has a flair for _____.

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

163. We went on a _____ visit to the sightseeing spot.

n. a very strong wind that moves rapidly in circles and causes a lot of damage

164. The infrared _____ helped identify the chemical composition of the sample.

n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

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

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

166. The picture earned near-_____ acclaim from critics.

adj. existing or affecting everywhere or everyone

ANSWERS: 159. population, 160. dispute, 161. collision, 162. mathematics, 163. whirlwind, 164. spectrometer, 165. nucleus, 166. universal

167. James Joyce's books are full of long, _____ sentences.

adj. extraordinarily complicated and hard to understand

168. My home is easily _____ from the shore.

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

169. The golfer recorded an _____ distance.

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

170. This bar _____ shows sales over the past five years.

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

171. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

172. Certain soft drinks and sugar-free products have warning label about their _____ content.

n. an essential amino acid that plays a crucial role in protein synthesis and various other physiological processes in the human body but can be dangerous in excessive amounts for people with phenylketonuria (PKU)

173. The strong force, mediated by _____ binds protons and neutrons in the atomic nucleus.

n. a subatomic particle that binds quarks together in the nucleus of an atom, thus mediating the strong nuclear force

174. The forestry _____ studied the interactions between the different species in the forest's ecosystem.

n. a person who studies the relationships between living organisms and their environment; the state of being outside or directed toward or relating to the outside or exterior

ANSWERS: 167. convoluted, 168. visible, 169. amazing, 170. graph, 171.

computation, 172. phenylalanine, 173. gluons, 174. ecologist

175. Five miles is _____ similar to eight kilometers.

adv. approximately but not precisely; with a violent manner

176. Our latest project is still at the _____ stage.

n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

177. The _____ to the new class was informative and engaging.

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

178. _____ 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

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

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

180. The _____ disappearance of the ship remains unsolved.

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

181. The recent _____ in grain prices is partly due to the war in the producing countries.

n. a narrow, thin, pointed piece of metal, wood, etc.; a sudden large increase in the magnitude or concentration of something

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

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

ANSWERS: 175. roughly, 176. embryo, 177. introduction, 178. Evolutionary, 179. confer, 180. mysterious, 181. spike, 182. stable

183. The _____ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.
- n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
184. Two months later, my tumor _____ utterly.
- v.* disappear or stop being present or existing suddenly and completely
185. The object is _____ at ultraviolet wavelengths.
- adj.* capable of being discovered or identified
186. Her research focuses on molecular _____ which uses gene sequences to study evolutionary relationships.
- n.* the study of the evolutionary relationships and history of organisms based on comparisons of their genetic sequences and other biological characteristics
187. The _____ medium comprises gas, dust, and cosmic rays that fill the space between stars.
- adj.* relating to or located in the space between stars
188. The systems we have developed has accepted as industry _____.
- n.* something that is regarded as usual, typical, or standard
189. The plant had a _____ appearance, indicating that it was not getting enough water.
- adj.* without life; dead
190. The computer's hard _____ was full, so she had to delete some files.
- n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

ANSWERS: 183. plot, 184. vanished, 185. detectable, 186. phylogenetics, 187. interstellar, 188. norms, 189. lifeless, 190. disk

191. The organizational _____ of start-ups is often flat and straightforward.

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

192. There are _____ differences between the two wine-producing regions.

adj. easy to see, discover or understand

ANSWERS: 191. structure, 192. obvious