

# Englist.me



## Vocabulary Builder Reference from...

*William Noel: Revealing the lost codex of Archimedes*

| TED Talk

[https://www.ted.com/talks/william\\_noel\\_revealing\\_the\\_lost\\_codex\\_of\\_archimedes](https://www.ted.com/talks/william_noel_revealing_the_lost_codex_of_archimedes)

### All Words

#### IMPORTANT

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

## Session 1: Word List

### ancient

*adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old

*synonym* : archaic, age-old, obsolete

(1) pre-Christian **ancient**, (2) **ancient** stories

They have been living near water since **ancient** times.

### 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.

### medieval

*adj.* relating to or belonging to the Middle Age that is for the period of A.D.600 to A.D. 1450

*synonym* : gothic, knightly, antique

(1) **medieval** times, (2) **medieval** history

Only the **medieval** tower remained standing.

### scribe

*n.* a person who writes out copies of documents or manuscripts, especially in ancient times

*synonym* : copyist, transcriber, writer

(1) **scribe** in ancient Egypt, (2) financial **scribe**

The **scribe's** skills were in high demand in medieval times,

when many people were illiterate.

## 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**.

## humanist

*n.* a person who is concerned with the welfare and rights of all human beings; one who believes in the inherent worth and dignity of every person and stresses the importance of human values and ethical principles

*synonym*: humanitarian, philanthropist, altruist

(1) **humanist** scholar, (2) **humanist** philosophy

The **humanist** counselor encouraged her clients to focus on their growth and well-being.

## papal

*adj.* relating to the pope (= the head of the Roman Catholic Church) or the Roman Catholic Church

*synonym*: pontifical, papistic, apostolical

(1) **papal** authority, (2) **papal** visit

The **papal** palace was a grand and imposing structure.

## codex

*n.* a manuscript book, especially one written in the medieval period, before the invention of printing

*synonym*: manuscript, tome, document

(1) **codex** manuscript, (2) medieval **codex**

The archaeologists found a **codex** buried alongside a mummy in an underground tomb.

## 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**.

## bury

v. to place a dead body in the ground, grave, or tomb  
*synonym*: entomb, sink, forget

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

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

## treasure

n. a valuable or desirable possession; something that is cherished or held dear; a collection of valuable objects or money that is hidden or protected

*synonym*: hoard, fortune, gem

(1) **treasure** hunt, (2) **treasure** island

The pirates searched for buried **treasure** in the dunes.

## pray

v. to make a request or petition to a higher power, especially in the form of a respectful or humble request

*synonym*: implore, supplicate, entreat

(1) **pray** devoutly, (2) **pray** for rain

She closed her eyes and **prayed** for strength to overcome difficult times.

## fin

n. a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance

*synonym*: flipper, appendage, stabilizer

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

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

## parchment

n. a thin, smooth, durable material made from the skin of a sheep or goat, used in the past as a writing surface

*synonym*: vellum, sheepskin, goatskin

(1) **parchment** scroll, (2) ancient **parchment**

The ancient scroll was written on **parchment** and carefully preserved in a museum.

## recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

*synonym*: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

## manuscript

*n.* the original copy of a book, piece of music, etc. before it is printed

*synonym* : script

(1) **manuscript** of a book, (2) ancient **manuscript**

The widow of a deceased writer discovered an incomplete novel **manuscript** in his room.

## 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.

## shuffle

*v.* to move or mix around in a casual or unorganized way; to walk with short, dragging steps

*synonym* : jumble, muddle, rearrange

(1) **shuffle** deck, (2) **shuffle** from side to side

She **shuffled** the cards before dealing them to the players.

## rot

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

*synonym* : perish, decay, corrode

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

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

## degree

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

*synonym* : level, qualification, diploma

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

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

## 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.

## disappear

*v.* to cease to exist or be visible

*synonym* : fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week  
They watched the train **disappear** into the distance.

## magnify

*v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder

*synonym* : enlarge, elaborate, intensify

(1) **magnify** the danger, (2) **magnify** the image for display  
Terrorists often attempt to **magnify** the economic impact of their acts of destruction.

## transcribe

*v.* to copy or reproduce something in written or printed form; to translate spoken language into written text

*synonym* : copy, record, transliterate

(1) **transcribe** notes, (2) **transcribe** documents

She needs to **transcribe** the interview recording to write the article for the magazine.

## unique

*adj.* being the only one of its kind; unlike anything else

*synonym* : one-of-a-kind, unparalleled, incomparable

(1) a **unique** teacher, (2) **unique** design

The painting is **unique**, and there is no other like it.

## forgery

*n.* the act of creating a fake or false document, object, or currency to deceive or defraud others; the item that has been created in such a way

*synonym* : counterfeit, fake, imitation

(1) **forgery** scam, (2) passport **forgery**

The art museum was forced to close down temporarily due to

concerns over **forgery** in their collection.

## suffer

*v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

*synonym*: endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

## mold

*n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long

*synonym*: cavity, cast, mildew

(1) a casting **mold**, (2) **mold** allergy

Mushrooms and **mold** are fungi.

## 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.

## write-off

*n.* a cancellation or reduction of a debt or financial obligation; a loss or expense that can be deducted from one's taxable income; a dismissal or rejection of something as unimportant or unworthy of attention

*synonym*: cancellation, deduction

(1) asset **write-off**, (2) **write-off** debts

Due to the economic downturn, the bank had to process many loan **write-offs**.

## 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.

## fragile

*adj.* delicate or easily broken or damaged

*synonym*: delicate, brittle, breakable

(1) politically **fragile** nation, (2) **fragile** ecosystem

The vase was made of **fragile** ceramic and easily broke when it was dropped.

## ubiquitous

*adj.* being or existing everywhere at once

*synonym*: universal, omnipresent, everywhere

(1) **ubiquitous** computing, (2) **ubiquitous** across ecosystems

Sugar is **ubiquitous** in food.

## principle

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

*synonym*: rule, creed, code

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

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

## background

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

*synonym*: ground, experience, backdrop

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

The company's hiring criteria emphasize personality, not a person's **background**.

## particle

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

*synonym*: atom, grain, bit

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

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

## physics

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

## classic

*adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type  
*synonym* : definitive, traditional, typical  
(1) a **classic** experiment, (2) Chinese **classic** literature  
He displayed the **classic** symptoms of depression.

## philology

*n.* the study of language in written historical sources, including the history and development of languages, their structures, and their relationships to one another  
*synonym* : linguistics, etymology  
(1) linguistic **philology**, (2) Indo-European **philology**  
Her research in comparative **philology** has unveiled connections between seemingly disparate languages.

## conservation

*n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity  
*synonym* : preservation, protection, saving  
(1) soil **conservation**, (2) the **conservation** law of physics  
The forest was recently designated a **conservation** area.

## glue

*n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials  
*synonym* : adhesive, paste, gum  
(1) **glue** stick, (2) epoxy **glue**  
The carpenter applied **glue** to the cabinet joints before nailing them together.

## spine

*n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column  
*synonym* : backbone, vertebra, column



(1) the **spine** of a book, (2) a cervical **spine** injury  
She has a minor curved **spine** due to desk work for many years.

## photograph

*n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film  
*synonym*: photo, picture, snapshot

(1) **photograph** album, (2) **photograph** memories  
I found an old **photograph** of my grandparents from their wedding day.

## conservator

*n.* a person or organization whose job is to preserve works of art, buildings, and other things of cultural interest  
*synonym*: curator, custodian, restorer

(1) art **conservator**, (2) **conservator** of the peace  
We usually regard justices as peace **conservators**.

## vinyl

*n.* a synthetic resin or plastic material that can be molded into various shapes and forms, particularly used in construction, furniture, and record production  
*synonym*: insulant

(1) **vinyl** flooring, (2) **vinyl** fence  
The record store has a large selection of **vinyl** albums.

## acetate

*n.* a synthetic material made from cellulose acetate that is used to make various consumer products such as clothing, upholstery, and packaging materials  
*synonym*: ethanoate

(1) **acetate** film, (2) **acetate** buttons  
The shirt is made of a soft **acetate** fabric.

## emulsify

*v.* to mix two or more liquids that normally don't dissolve in each other, such as oil and water, by adding an agent that helps to suspend the tiny droplets of one liquid within the other  
*synonym*: blend, fuse, mix

(1) **emulsify** fats and proteins, (2) **emulsify** egg yolks  
You must first **emulsify** the oil and vinegar to make the salad dressing.

## dissolve

*v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

*synonym*: disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage  
The political party **dissolved** after much internal fighting.

## gentle

*adj.* having or showing a kindly or tender nature; soft and mild

*synonym*: mild, delicate, soft

(1) in a **gentle** voice, (2) **gentle** downward slope  
Her **gentle** manner relaxed everyone there.

## rid

*v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

*synonym*: do away with, free, clear

(1) get **rid** of the rats, (2) **rid** the body of waste products  
We must **rid** ourselves of pollution.

## wax

*n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

(1) **wax** finish, (2) **wax** and wane  
He sealed the letter with a **wax** seal.

## liturgy

*n.* a form of public worship or religious service, especially in the Christian Church

*synonym*: rite, service, ceremony

(1) divine **liturgy**, (2) **liturgy** of a church  
The **liturgy** for the Mass included hymns, prayers, and readings from the Bible.

## orthodox

*adj.* following or conforming to the traditional, normal, or commonly accepted beliefs, ideas, or activities; of or relating to Judaism; of or relating to the Eastern Orthodox Church

*synonym* : traditional, conventional, established

(1) an **orthodox** doctrine, (2) **orthodox** thought

He challenged the **orthodox** views on business.

## church

*n.* a building or institution dedicated to religious worship or activities; a Christian religious organization or denomination

*synonym* : chapel, cathedral, synagogue

(1) **church** bell, (2) small **church**

The **church** on the corner is hosting a free community meal tonight.

## mechanical

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

*synonym* : machinelike, automated, automatic

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

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

## scrape

*v.* to draw something along a rough or hard surface, typically to remove dirt or other matter

*synonym* : scratch, graze, rub

(1) **scrape** meat off a bone, (2) **scrape** a hole in the ground

He **scraped** the mud off his boots before entering the house.

## normally

*adv.* usually; under normal conditions

*synonym* : commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much

I don't **normally** take a vacation in the middle of summer.

## fragment

*n.* a small piece or part broken off or detached

*synonym* : piece, shard, segment

(1) **fragment** of a text, (2) a broken **fragment**

The archaeologist carefully pieced together the tiny **fragments** of pottery found at the dig site.

## 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.

## blank

*adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information

*synonym* : empty, void, barren

(1) **blank** expression, (2) **blank** paper

The computer screen displayed nothing but a **blank** white screen

## 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**.

## ultraviolet

*adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

*synonym* : black light, UV light, invisible light

(1) **ultraviolet** protection, (2) **ultraviolet** light

**Ultraviolet** radiation can cause skin damage if one is exposed for too long.

## 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.

## merge

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

*synonym*: combine, join, coalesce

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

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

## digital

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

*synonym*: numerical, computerized, cyber

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

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

## canvas

*n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on

(1) blank **canvas**, (2) oil on **canvas**

Life is a vast **canvas**; you should put as much paint on it as possible.

## zoom

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

*synonym*: move quickly, dive, buzz

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

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

## terribly

*adv.* very badly; to a great extent or very much

*synonym*: awfully, abominably, badly

(1) suffer **terribly**, (2) I am **terribly** sorry

His arm was swollen and **terribly** red.

## diagram

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

*synonym*: chart, figure, graph

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

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

## sand

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

*synonym*: grit, dust, powder

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

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

## infrared

*adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

*synonym*: thermal, warm, radiant

(1) an **infrared** lamp, (2) **infrared** radiation

The **infrared** camera revealed a hidden image on the surface.

## invisible

*adj.* impossible or nearly impossible to see

*synonym*: hidden, imperceptible, unseen

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

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

## 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.

## X-ray

*n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed

*synonym*: roentgenogram, photon radiography

(1) **X-ray** scan, (2) an **X-ray** of arteries

The doctor ordered an **X-ray** to see if there was any damage to the bones.

## fluorescence

*n.* the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process

*synonym*: glow, luminescence, radiance

(1) **fluorescence** microscopy, (2) **fluorescence** labeling

The **fluorescence** of the green dye made it easy to see the bacteria under the microscope.

## electron

*n.* a tiny particle with the negative electrical charge

*synonym*: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

## shell

*n.* hard outer covering or case of eggs, nuts, some seeds, and some animals

*synonym*: ammunition, armor, cover

(1) an egg **shell**, (2) a mollusk **shell**

The outermost electron **shell** determines the chemical properties of an atom.

## atom

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

*synonym*: particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its

chemical characteristics.

## shed

*v.* to get rid of something as superfluous or unwanted; to cast off hair, skin, horn, or feathers; (noun) an outbuilding with a single story, mainly used for shelter or storage

*synonym* : discard, drop, cast off

(1) **shed** an old skin, (2) a cow **shed**

He **shed** a secret tear when he heard the news of his friend's death.

## electromagnetic

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

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

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

## radiation

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

*synonym* : dissemination, emission, irradiation

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

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

## specific

*adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

*synonym* : particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

## wavelength

*n.* the distance between two points in the same phase in consecutive cycles of a wave

(1) **wavelength** of light, (2) long- **wavelength** laser

White color is made up of many different **wavelengths** of



light.

## 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.

## synchrotron

*n.* a large and powerful particle accelerator that produces highly intense beams of light or other particles, often used in scientific research, particularly in physics and chemistry

*synonym* : particle accelerator, atom smasher

(1) **synchrotron** radiation, (2) **synchrotron** facility

Scientists use a high-energy **synchrotron** to accelerate particles for research purposes.

## 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**.

## 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.

## positron

*n.* an antiparticle of the electron with a positive charge that has the same mass as the electron but an opposite charge

*synonym* : antielectron, antiparticle, positronium

(1) **positron** emission, (2) **positron** annihilation

**Positron** emission tomography, or PET, is a medical imaging technique.

## atomic

*adj.* of or relating to atom (= the smallest component of an element)

*synonym*: tiny, microscopic, nuclear

(1) **atomic** nucleus, (2) **atomic** bomb

Carbon has an **atomic** mass of 12.

## charm

*n.* the power or quality of pleasing or fascinating people

*synonym*: allure, appeal, beauty

(1) masculine **charm**, (2) **charm** against bad luck

These are significantly more exquisite than typical **charm** bracelets.

## 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.

## tau

*n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2

(1) **tau** particle, (2) the symbol of **tau**

The **tau** protein has been found to play a role in the development of Alzheimer's disease and other neurological disorders.

## lepton

*n.* a subatomic particle that is one of the basic building blocks of matter, having little or no mass and carrying an electrical charge

*synonym*: subatomic particle, quark

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

The discovery of the muon **lepton** helped to confirm the existence of the weak nuclear force.

## beam

*n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

*synonym*: ray, ray of light, shaft of light

(1) **beam** of light, (2) a structural **beam** of a building

The sun's **beam** shone through the window and illuminated the room.

## solar

*adj.* of, from, or relating to the sun

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

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

## protein

*n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues

(1) stress **protein**, (2) **protein** synthesis

The body needs a certain amount of **protein** to build and repair tissues.

## behold

*v.* to look at and observe with attention

*synonym*: see, observe, watch

(1) **behold** the sunrise, (2) a joy to **behold**

His angry expression was not a pleasant sight to **behold**.

## involve

*v.* to include or affect someone or something as a necessary part of something else

*synonym*: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

## divide

*v.* to separate or cause to separate into parts or groups  
*synonym*: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

## recombine

*v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**

Some scientists argue that the genes in food should not be artificially **recombined**.

## combinatorics

*n.* a branch of mathematics that deals with counting, arranging, and manipulating the combinations and permutations of elements in a set

*synonym*: combinatorial mathematics, permutation theory

(1) discrete **combinatorics**, (2) applied **combinatorics**

The theory of **combinatorics** has numerous practical applications, including network design and scheduling.

## branch

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

*synonym*: limb, twig, bough

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

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

## astonishing

*adj.* surprising or shocking; difficult to believe

*synonym*: surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone who knew her.

## palimpsest

*n.* a manuscript or piece of writing material on which the original writing has been effaced to make room for later writing

(1) **palimpsest** parchment, (2) medieval **palimpsest**

The **palimpsest** manuscript he discovered contained layers of text from different centuries, offering a fascinating glimpse into the past.

## orator

*n.* a skilled public speaker, particularly one who is eloquent and persuasive; someone who delivers speeches or addresses an audience

*synonym*: speaker, rhetorician, lecturer

(1) skilled **orator**, (2) persuasive **orator**

The charismatic **orator** captivated the audience with his powerful speech.

## contemporary

*adj.* belonging to the same or present time

*synonym*: modern, stylish, coetaneous

(1) field of **contemporary** art, (2) **contemporary** leaders

**Contemporary** music has gained different followers from existing music.

## military

*adj.* relating to or characteristic of members of the armed forces; of or relating to war or warfare

*synonym*: armed, martial, warlike

(1) a **military** operation, (2) a **military** leader

The **military** academy was known for its strict discipline and training.

## conquer

*v.* to bring under control by force or authority

*synonym*: defeat, overpower, subdue

(1) **conquer** fatal disease, (2) **conquer** the world

You must **conquer** your anxiety about driving.

## treason

*n.* the act of betraying one's country or government, especially by attempting to overthrow it or give aid and comfort to its enemies; a violation of allegiance or loyalty to one's country or government

*synonym*: betrayal, disloyalty, sedition

(1) high **treason**, (2) arrested for **treason**

The rebels were sentenced to death for committing acts of **treason** against the state.

## noble

*adj.* having or showing excellent personal qualities or high moral principles that people admire

*synonym*: dignified, aristocratic, benevolent

(1) a **noble** family, (2) **noble** gas

He is a **noble-minded** man

## spartan

*adj.* of or relating to Sparta (= a prominent city-state in Laconia, in ancient Greece) or its people; showing self-discipline and determination, especially in the face of hardship or adversity

*synonym*: ascetic, austere, hard

(1) **spartan** training, (2) a **spartan** diet

The soldier lived a **spartan** lifestyle, with few possessions and luxuries.

## enumerate

*v.* to list or mention a number of items or things one by one; to count or calculate systematically

*synonym*: list, count, itemize

(1) **enumerate** details, (2) **enumerate** options

I will **enumerate** all the items on the grocery list to ensure we remember everything.

## victory

*n.* success in a game, competition, election, or battle, or the knowledge that you have won

*synonym*: win, triumph, success

(1) **victory** in the law court, (2) **victory** over terrorism

We are optimistic about our final **victory**.

## selfish

*adj.* concerned primarily with one's profit or pleasure without regard for others; forming or arising from a person's self or interest

*synonym*: egocentric, self-centered, narcissistic

(1) **selfish** motive, (2) **selfish** desire

His **selfish** ambition caused him to step on others to climb the corporate ladder.

## butcher

*n.* a person who prepares and sells meat, especially at a retail shop; a person who kills or slaughters animals, especially for food; a person who engages in the relentless or brutal treatment of others

*synonym*: butcherer, meat cutter, slaughterer

(1) **butcher** knife, (2) local **butcher**

He's a vegetarian and was shocked to see so much meat in the **butcher** shop.

## faction

*n.* a group within an organization or political party that is in disagreement with the majority or seeks to create change in policies or leadership

*synonym*: clique, group, party

(1) extremist **faction**, (2) religious **faction**

The political **faction** within the party was causing conflicts and disagreements.

## tongue

*n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language

*synonym*: lingo, language, vocabulary

(1) native **tongue**, (2) **tongue** cancer

The **tongue** is boneless, but it is as strong as bones.

## mockery

*n.* the act of ridiculing or making fun of someone or something, often in a contemptuous or mocking manner

*synonym*: ridicule, derision, taunt

(1) **mockery** of the situation, (2) public **mockery**

The comedian's **mockery** of the recent political scandal drew laughs from the crowd.

## oratory

*n.* the art or skill of public speaking; the act or practice of delivering speeches or formal addresses in a persuasive and eloquent manner

*synonym*: speech, rhetoric, eloquence

(1) great **oratory** ability, (2) deliver powerful **oratory**  
The politician's **oratory** skills were admired by many and helped him sway public opinion.

## antiquity

*n.* the ancient past, especially the period of classical civilization

*synonym*: ancientness, oldness, hoariness

(1) remote **antiquity**, (2) unrecorded **antiquity**

The study of **antiquity** is important for understanding the history, culture, and civilization of the past and their influence on the present.

## grave

*n.* a place where a dead body is buried, typically marked by a headstone or other memorial; a very serious, solemn, or important matter; (verb) to carve, cut, or etch a design, inscription, or mark onto a hard surface, such as stone or metal; (adjective) serious, solemn, or weighty in nature

*synonym*: tomb, crypt, sepulcher

(1) **grave** an image, (2) **grave** mistake

Many innocent civilians were killed and buried in mass **graves** outside the city during the war.

## weird

*adj.* extraordinary, unexpected, or difficult to explain

*synonym*: bizarre, creepy, peculiar

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

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

## philosophy

*n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

*synonym*: doctrine, attitude, creed

(1) **philosophy** of education, (2) western **philosophy**

Ethics is a branch of **philosophy**.

## commentary

*n.* an expression or explanation of opinions or observations on a particular subject, event, or situation; detailed analysis or explanation provided in writing or orally



*synonym* : analysis, critique, interpretation

(1) **commentary** piece, (2) political **commentary**

The sports **commentary** provided insightful analysis and observations throughout the game.

## probable

*adj.* likely to happen or likely to be true

*synonym* : likely, possible, potential

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

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

## creative

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

*synonym* : imaginative, innovative, inventive

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

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

## commons

*n.* the House of Commons, which is one of the two houses of Parliament; a piece of land or an area set aside for public use, often used for recreation or grazing livestock; a shared or public resource

*synonym* : park, common land, public space

(1) the creative **commons** license, (2) community **commons**

The tragedy of the **commons** is an economic theory explaining how individual actions can deplete shared resources.

## license

*n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service

*synonym* : permit, authorization, certificate

(1) **license** renewal, (2) software **license**

Before driving, ensure you have a valid driver's **license**.

## commerce

*n.* the activity of buying and selling things, especially on a large scale

*synonym*: trade, transaction, dealings

(1) interstate **commerce**, (2) the local chamber of **commerce**

This company has invested heavily in Internet **commerce**.

## utility

*n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public

*synonym*: usefulness, practicality, utility

(1) **utility** costs, (2) marginal **utility**

The **utility** of the device was immediately apparent to all who saw it.

## closet

*n.* a small room or cabinet with a door used for storing things, especially clothes

*synonym*: cabinet, cupboard, locker

(1) **closet** full of suits, (2) walk-in **closets**

He brushed the suit before hanging it back into the **closet**.

## confine

*v.* to restrict the movement of someone or something

*synonym*: restrict, limit, contain

(1) **confine** themselves solely, (2) **confine** the scope of use

The animal was **confined** in a small cage.

## copyright

*n.* the legal right to be the only person or organization who can reproduce, publish, and sell a particular piece of work

*synonym*: patent, trademark, intellectual property

(1) artistic **copyright**, (2) **copyright** infringement

The company is taking legal action against those who have violated their **copyright** on the software.

## restriction

*n.* a limitation or constraint placed on something, or the act of limiting or constraining something

*synonym*: limitation, constraint, control

(1) nutritional **restriction**, (2) **restriction** on trade

The **restriction** on travel during the pandemic made it difficult for people to see their loved ones.

## nation

*n.* a large organized community of people living in a particular country or region and having a particular culture

*synonym*: country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.

## boring

*adj.* lacking interest or excitement; tedious or dull

*synonym*: dull, tedious, monotonous

(1) **boring** work, (2) **boring** day

The lecture was so **boring** that many people fell asleep.

## aggregate

*n.* a collection or sum of different things often used to describe a total or combination of items

*synonym*: total, sum, whole

(1) data **aggregate**, (2) an **aggregate** of people

The **aggregate** amount of money raised for the charity was over a million dollars.

## romantic

*adj.* of or relating to love or a sexual relationship

*synonym*: idealistic, unrealistic, amatory

(1) **romantic** movies, (2) **romantic** breakup

It was his first **romantic** love.

## curate

*n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

*synonym*: minister, caretaker, (verb) arrange

(1) perpetual **curate**, (2) **curate** an art website

The art museum has hired a **curate** to select and display pieces from its collection.

## glorious

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

*synonym*: exquisite, magnificent, majestic

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

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

## attractive

*adj.* immensely appealing in look or sound; having characteristics or qualities that make something appealing and valuable

*synonym*: beautiful, fetching, alluring

(1) **attractive** men, (2) **attractive** opportunity

The growth of the "sharing economy" is **attractive** for tech companies.

## metadata

*n.* information that describes or provides contextual details about other data, such as the content, structure, format, or authorship of a document or file

*synonym*: data about data, descriptive information, metainformation

(1) **metadata** analysis, (2) **metadata** storage

The **metadata** for a video game includes information about the game's platform and release date.

## fantastic

*adj.* extremely good; excellent

*synonym*: incredible, unbelievable, marvelous

(1) a **fantastic** dress, (2) absolutely **fantastic** event

The new amusement park ride was **fantastic**, with twists, turns, and drops that left riders screaming with excitement.

## humanity

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

*synonym*: humankind, society, human race

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

They donated large sums of money for the development of

## humanity.

### absolutely

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

*synonym* : completely, utterly, definitely

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

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

### release

*v.* to set free or allow to escape from confinement

*synonym* : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

### unrestricted

*adj.* not limited or confined in any way

*synonym* : open, available, free

(1) **unrestricted** access, (2) have **unrestricted** options

Capitalism allows **unrestricted** property ownership for individuals.

### significance

*n.* the importance or value attached to something; the quality of being significant or noteworthy

*synonym* : importance, value, worth

(1) **significance** level, (2) mystical **significance**

The **significance** of his discovery cannot be overstated.

## Session 2: Spelling

- |                                |   |
|--------------------------------|---|
| 1. small ch___h                | <i>n.</i> a building or institution dedicated to religious worship or activities; a Christian religious organization or denomination  |
| 2. co_____r fatal disease      | <i>v.</i> to bring under control by force or authority  |
| 3. s__d dunes                  | <i>n.</i> finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action |
| 4. the_____al models           | <i>adj.</i> relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience   |
| 5. an in_____le asset          | <i>adj.</i> impossible or nearly impossible to see  |
| 6. get r_d of the rats         | <i>v.</i> to make someone or something free of unwanted or unpleasant tasks, objects, or person   |
| 7. politically fr_____e nation | <i>adj.</i> delicate or easily broken or damaged  |
| 8. a mi_____ry leader          | <i>adj.</i> relating to or characteristic of members of the armed forces; of or relating to war or warfare  |
| 9. me_____al history           | <i>adj.</i> relating to or belonging to the Middle Age that is for the period of A.D.600 to A.D. 1450   |

ANSWERS: 1. church, 2. conquer, 3. sand, 4. theoretical, 5. invisible, 6. rid, 7. fragile, 8. military, 9. medieval

10. pa\_\_\_\_le energy *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
11. charged pa\_\_\_\_le *n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
12. sig\_\_\_\_\_nce level *n.* the importance or value attached to something; the quality of being significant or noteworthy
13. wav\_\_\_\_\_th of light *n.* the distance between two points in the same phase in consecutive cycles of a wave
14. vi\_\_l flooring *n.* a synthetic resin or plastic material that can be molded into various shapes and forms, particularly used in construction, furniture, and record production
15. pr\_\_\_\_\_le in business *n.* a fundamental law or truth that explains or controls how something happens or works
16. issue a w\_\_t *n.* a written legal order or command
17. co\_\_\_\_\_ht infringement *n.* the legal right to be the only person or organization who can reproduce, publish, and sell a particular piece of work
18. sc\_\_\_e a hole in the ground *v.* to draw something along a rough or hard surface, typically to remove dirt or other matter
19. a di\_\_\_\_\_l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 10. particle, 11. particle, 12. significance, 13. wavelength, 14. vinyl, 15. principle, 16. writ, 17. copyright, 18. scrape, 19. digital

20. man\_\_\_\_\_pt of a book *n.* the original copy of a book, piece of music, etc. before it is printed
21. art con\_\_\_\_\_or *n.* a person or organization whose job is to preserve works of art, buildings, and other things of cultural interest
22. s\_\_d castle *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
23. a cow s\_\_d *v.* to get rid of something as superfluous or unwanted; to cast off hair, skin, horn, or feathers; (noun) an outbuilding with a single story, mainly used for shelter or storage
24. the def\_\_\_\_\_on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
25. western phi\_\_\_\_\_hy *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
26. bl\_\_k expression *adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
27. an in\_\_\_\_\_ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

ANSWERS: 20. manuscript, 21. conservator, 22. sand, 23. shed, 24. definition, 25. philosophy, 26. blank, 27. infrared



28. acc\_\_\_\_\_te a chemical reaction      *v.* to make something faster or earlier; to cause to develop or progress more quickly
29. ancient pa\_\_\_\_\_nt      *n.* a thin, smooth, durable material made from the skin of a sheep or goat, used in the past as a writing surface
30. laws of ph\_\_\_\_\_s      *n.* the science of matter and energy and their interactions
31. begin to r\_t      *v.* to decay, or cause something to decay, naturally and gradually
32. su\_\_\_\_\_e a blizzard      *v.* to live or exist despite a dangerous event or period
33. co\_\_\_\_\_e themselves solely      *v.* to restrict the movement of someone or something
34. tra\_\_\_\_\_be documents      *v.* to copy or reproduce something in written or printed form; to translate spoken language into written text
35. se\_\_\_\_\_h motive      *adj.* concerned primarily with one's profit or pleasure without regard for others; forming or arising from a person's self or interest
36. cr\_\_\_\_\_ve writing      *adj.* relating to or involving the use of skill and original and unusual ideas to create something
37. ess\_\_\_\_\_ly correct      *adv.* relating to the essential features or concepts of anything
38. photo in gl\_\_\_\_\_us color      *adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor

ANSWERS: 28. accelerate, 29. parchment, 30. physics, 31. rot, 32. survive, 33. confine, 34. transcribe, 35. selfish, 36. creative, 37. essentially, 38. glorious

39. a structural b\_\_m of a building *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
40. sh\_\_\_\_\_e from side to side *v.* to move or mix around in a casual or unorganized way; to walk with short, dragging steps
41. passport fo\_\_\_\_\_y *n.* the act of creating a fake or false document, object, or currency to deceive or defraud others; the item that has been created in such a way
42. di\_\_\_\_\_l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
43. co\_\_\_\_\_e the scope of use *v.* to restrict the movement of someone or something
44. the so\_\_r system *adj.* of, from, or relating to the sun
45. flu\_\_\_\_\_nce microscopy *n.* the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process
46. r\_t with age *v.* to decay, or cause something to decay, naturally and gradually
47. co\_\_\_\_\_r the world *v.* to bring under control by force or authority

ANSWERS: 39. beam, 40. shuffle, 41. forgery, 42. digital, 43. confine, 44. solar, 45. fluorescence, 46. rot, 47. conquer

48. tr\_\_\_\_re hunt *n.* a valuable or desirable possession; something that is cherished or held dear; a collection of valuable objects or money that is hidden or protected
49. w\_x finish *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
50. r\_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
51. extremist fa\_\_\_\_n *n.* a group within an organization or political party that is in disagreement with the majority or seeks to create change in policies or leadership
52. in a di\_\_\_\_m *n.* a simplified illustration of the appearance, structure, or workings of something
53. epoxy g\_\_e *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
54. po\_\_\_\_on annihilation *n.* an antiparticle of the electron with a positive charge that has the same mass as the electron but an opposite charge
55. att\_\_\_\_ve opportunity *adj.* immensely appealing in look or sound; having characteristics or qualities that make something appealing and valuable
56. a broken fr\_\_\_\_nt *n.* a small piece or part broken off or detached

ANSWERS: 48. treasure, 49. wax, 50. rid, 51. faction, 52. diagram, 53. glue, 54. positron, 55. attractive, 56. fragment

57. a cervical sp\_\_e injury      *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
58. in a ge\_\_\_e voice      *adj.* having or showing a kindly or tender nature; soft and mild
59. pho\_\_\_\_\_ph memories      *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
60. a mi\_\_\_\_\_ry operation      *adj.* relating to or characteristic of members of the armed forces; of or relating to war or warfare
61. a sp\_\_\_\_\_n diet      *adj.* of or relating to Sparta (= a prominent city-state in Laconia, in ancient Greece) or its people; showing self-discipline and determination, especially in the face of hardship or adversity
62. officially di\_\_\_\_\_ved the marriage      *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
63. sc\_\_\_e in ancient Egypt      *n.* a person who writes out copies of documents or manuscripts, especially in ancient times
64. oxygen a\_\_m      *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
65. a joy to be\_\_\_d      *v.* to look at and observe with attention

ANSWERS: 57. spine, 58. gentle, 59. photograph, 60. military, 61. spartan, 62. dissolve, 63. scribe, 64. atom, 65. behold

66. a criminal bac\_\_\_\_\_nd      *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
67. di\_\_\_e money equally      *v.* to separate or cause to separate into parts or groups
68. en\_\_\_\_\_te details      *v.* to list or mention a number of items or things one by one; to count or calculate systematically
69. ac\_\_\_\_\_e film      *n.* a synthetic material made from cellulose acetate that is used to make various consumer products such as clothing, upholstery, and packaging materials
70. bo\_\_\_g work      *adj.* lacking interest or excitement; tedious or dull
71. abs\_\_\_\_\_ly obsessed with the girl      *adv.* without restriction or limitation; completely or utterly
72. phi\_\_\_\_\_hy of education      *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
73. 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
74. li\_\_\_\_\_y of a church      *n.* a form of public worship or religious service, especially in the Christian Church

ANSWERS: 66. background, 67. divide, 68. enumerate, 69. acetate, 70. boring, 71. absolutely, 72. philosophy, 73. discovery, 74. liturgy

75. the local chamber of co\_\_\_\_\_ce      *n.* the activity of buying and selling things, especially on a large scale
76. ubi\_\_\_\_\_us across ecosystems      *adj.* being or existing everywhere at once
77. abs\_\_\_\_\_ly against      *adv.* without restriction or limitation; completely or utterly
78. 3D di\_\_\_\_\_m      *n.* a simplified illustration of the appearance, structure, or workings of something
79. suffer te\_\_\_\_\_ly      *adv.* very badly; to a great extent or very much
80. 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
81. oil on ca\_\_\_\_\_s      *n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
82. m\_\_d allergy      *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
83. electromagnetic ra\_\_\_\_\_on      *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 75. commerce, 76. ubiquitous, 77. absolutely, 78. diagram, 79. terribly, 80. process, 81. canvas, 82. mold, 83. radiation

84. me\_\_\_\_ta storage *n.* information that describes or provides contextual details about other data, such as the content, structure, format, or authorship of a document or file
85. unrecorded an\_\_\_\_ty *n.* the ancient past, especially the period of classical civilization
86. software li\_\_\_\_e *n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service
87. pa\_\_l visit *adj.* relating to the pope (= the head of the Roman Catholic Church) or the Roman Catholic Church
88. 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
89. sp\_\_\_\_ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
90. de\_\_\_\_e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
91. ma\_\_\_\_y the danger *v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder

ANSWERS: 84. metadata, 85. antiquity, 86. license, 87. papal, 88. discovery, 89. specific, 90. degree, 91. magnify

92. pr\_\_\_\_n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
93. a casting m\_\_d *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
94. ult\_\_\_\_et light *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
95. an\_\_\_\_t stories *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
96. di\_\_\_\_ar without a trace *v.* to cease to exist or be visible
97. flow of el\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
98. back f\_n *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
99. tra\_\_\_\_be notes *v.* to copy or reproduce something in written or printed form; to translate spoken language into written text
100. me\_\_\_\_al times *adj.* relating to or belonging to the Middle Age that is for the period of A.D.600 to A.D. 1450

ANSWERS: 92. protein, 93. mold, 94. ultraviolet, 95. ancient, 96. disappear, 97. electron, 98. fin, 99. transcribe, 100. medieval



101. great or \_\_\_\_y ability *n.* the art or skill of public speaking; the act or practice of delivering speeches or formal addresses in a persuasive and eloquent manner
102. hu \_\_\_\_st scholar *n.* a person who is concerned with the welfare and rights of all human beings; one who believes in the inherent worth and dignity of every person and stresses the importance of human values and ethical principles
103. con \_\_\_\_\_ary leaders *adj.* belonging to the same or present time
104. a br \_\_\_\_h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
105. flu \_\_\_\_\_nce labeling *n.* the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process
106. skilled or \_\_\_\_r *n.* a skilled public speaker, particularly one who is eloquent and persuasive; someone who delivers speeches or addresses an audience
107. me \_\_e into a new party *v.* to combine or integrate things, or to cause this to happen
108. w\_x and wane *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

ANSWERS: 101. oratory, 102. humanist, 103. contemporary, 104. branch, 105. fluorescence, 106. orator, 107. merge, 108. wax

109. a mec\_\_\_\_\_al style of writing      *adj.* operated by a machine, relating to or concerned with machinery or tools
110. long-wav\_\_\_\_\_th laser      *n.* the distance between two points in the same phase in consecutive cycles of a wave
111. linguistic ph\_\_\_\_\_gy      *n.* the study of language in written historical sources, including the history and development of languages, their structures, and their relationships to one another
112. the influence of mec\_\_\_\_\_al action      *adj.* operated by a machine, relating to or concerned with machinery or tools
113. or\_\_\_\_\_ox thought      *adj.* following or conforming to the traditional, normal, or commonly accepted beliefs, ideas, or activities; of or relating to Judaism; of or relating to the Eastern Orthodox Church
114. divine li\_\_\_\_\_y      *n.* a form of public worship or religious service, especially in the Christian Church
115. medieval co\_\_x      *n.* a manuscript book, especially one written in the medieval period, before the invention of printing
116. ult\_\_\_\_\_et protection      *adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation
117. me\_\_e those systems into a new one      *v.* to combine or integrate things, or to cause this to happen
118. the sp\_\_e of a book      *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column

ANSWERS: 109. mechanical, 110. wavelength, 111. philology, 112. mechanical, 113. orthodox, 114. liturgy, 115. codex, 116. ultraviolet, 117. merge, 118. spine

119. pal\_\_\_\_\_st parchment *n.* a manuscript or piece of writing material on which the original writing has been effaced to make room for later writing
120. 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
121. n\_\_\_m of action *n.* something that is regarded as usual, typical, or standard
122. en\_\_\_\_\_te options *v.* to list or mention a number of items or things one by one; to count or calculate systematically
123. sp\_\_\_\_\_n training *adj.* of or relating to Sparta (= a prominent city-state in Laconia, in ancient Greece) or its people; showing self-discipline and determination, especially in the face of hardship or adversity
124. ro\_\_\_\_\_ic movies *adj.* of or relating to love or a sexual relationship
125. Indo-European ph\_\_\_\_\_gy *n.* the study of language in written historical sources, including the history and development of languages, their structures, and their relationships to one another
126. ac\_\_\_\_\_e buttons *n.* a synthetic material made from cellulose acetate that is used to make various consumer products such as clothing, upholstery, and packaging materials
127. a gl\_\_\_\_\_us victory *adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor

ANSWERS: 119. palimpsest, 120. decide, 121. norm, 122. enumerate, 123. spartan, 124. romantic, 125. philology, 126. acetate, 127. glorious

128. vi\_\_\_\_y over terrorism *n.* success in a game, competition, election, or battle, or the knowledge that you have won
129. religious fa\_\_\_\_n *n.* a group within an organization or political party that is in disagreement with the majority or seeks to create change in policies or leadership
130. er\_\_ed the files *v.* to remove something completely, especially by rubbing it
131. hu\_\_\_\_ty at large *n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
132. walk-in cl\_\_\_\_ts *n.* a small room or cabinet with a door used for storing things, especially clothes
133. li\_\_\_\_e renewal *n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service
134. the symbol of t\_u *n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2
135. interstate co\_\_\_\_ce *n.* the activity of buying and selling things, especially on a large scale
136. no\_\_e gas *adj.* having or showing excellent personal qualities or high moral principles that people admire

ANSWERS: 128. victory, 129. faction, 130. erase, 131. humanity, 132. closet, 133. license, 134. tau, 135. commerce, 136. noble

137. re\_\_\_\_e milk packaging into new paper      *v.* to sort and collect things to process them and produce valuable materials that can be used again
138. di\_\_\_\_ve the sugar      *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
139. public mo\_\_\_\_y      *n.* the act of ridiculing or making fun of someone or something, often in a contemptuous or mocking manner
140. a mollusk sh\_\_l      *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
141. bachelor's de\_\_\_\_e      *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
142. in\_\_\_\_ed radiation      *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
143. b\_\_y in the earth      *v.* to place a dead body in the ground, grave, or tomb
144. remote an\_\_\_\_ty      *n.* the ancient past, especially the period of classical civilization
145. 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

ANSWERS: 137. recycle, 138. dissolve, 139. mockery, 140. shell, 141. degree, 142. infrared, 143. bury, 144. antiquity, 145. quark

146. at\_\_\_c nucleus *adj.* of or relating to atom (= the smallest component of an element)
147. X-\_\_y scan *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
148. cultural n\_\_m *n.* something that is regarded as usual, typical, or standard
149. p\_\_y for rain *v.* to make a request or petition to a higher power, especially in the form of a respectful or humble request
150. su\_\_\_\_\_e a plane crash *v.* to live or exist despite a dangerous event or period
151. a cl\_\_\_\_\_c experiment *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
152. nutritional res\_\_\_\_\_on *n.* a limitation or constraint placed on something, or the act of limiting or constraining something
153. not no\_\_\_\_\_ly drink much *adv.* usually; under normal conditions
154. artistic co\_\_\_\_\_ht *n.* the legal right to be the only person or organization who can reproduce, publish, and sell a particular piece of work
155. ability to re\_\_\_\_\_ne *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

ANSWERS: 146. atomic, 147. X-ray, 148. norm, 149. pray, 150. survive, 151. classic, 152. restriction, 153. normally, 154. copyright, 155. recombine

156. syn\_\_\_\_\_on facility *n.* a large and powerful particle accelerator that produces highly intense beams of light or other particles, often used in scientific research, particularly in physics and chemistry
157. su\_\_\_r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
158. t\_u particle *n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2
159. stress pr\_\_\_\_\_n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
160. z\_\_m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
161. re\_\_\_\_\_e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again
162. br\_\_\_h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
163. in\_\_\_\_\_le stars *adj.* impossible or nearly impossible to see
164. bu\_\_\_\_\_r knife *n.* a person who prepares and sells meat, especially at a retail shop; a person who kills or slaughters animals, especially for food; a person who engages in the relentless or brutal treatment of others

ANSWERS: 156. synchrotron, 157. suffer, 158. tau, 159. protein, 160. zoom, 161. recycle, 162. branch, 163. invisible, 164. butcher

165. field of con\_\_\_\_\_ary art *adj.* belonging to the same or present time
166. ge\_\_\_e downward slope *adj.* having or showing a kindly or tender nature; soft and mild
167. an egg sh\_\_l *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
168. mystical sig\_\_\_\_\_nce *n.* the importance or value attached to something; the quality of being significant or noteworthy
169. a un\_\_\_e teacher *adj.* being the only one of its kind; unlike anything else
170. pho\_\_\_\_\_ph album *n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
171. to\_\_\_e cancer *n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language
172. be\_\_\_d the sunrise *v.* to look at and observe with attention
173. at\_\_\_c bomb *adj.* of or relating to atom (= the smallest component of an element)
174. masculine ch\_\_m *n.* the power or quality of pleasing or fascinating people
175. the state of being we\_\_d *adj.* extraordinary, unexpected, or difficult to explain
176. z\_\_m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
177. exposure to ra\_\_\_\_\_on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 165. contemporary, 166. gentle, 167. shell, 168. significance, 169. unique, 170. photograph, 171. tongue, 172. behold, 173. atomic, 174. charm, 175. weird, 176. zoom, 177. radiation



178. in\_\_\_\_\_e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
179. mo\_\_\_\_\_y of the situation *n.* the act of ridiculing or making fun of someone or something, often in a contemptuous or mocking manner
180. pa\_\_l authority *adj.* relating to the pope (= the head of the Roman Catholic Church) or the Roman Catholic Church
181. 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
182. nuclear ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
183. pre-Christian an\_\_\_\_\_t *adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
184. complete no\_\_\_\_\_ly *adv.* usually; under normal conditions
185. persuasive or\_\_\_\_r *n.* a skilled public speaker, particularly one who is eloquent and persuasive; someone who delivers speeches or addresses an audience
186. a bac\_\_\_\_\_nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

ANSWERS: 178. involve, 179. mockery, 180. papal, 181. institute, 182. physics, 183. ancient, 184. normally, 185. orator, 186. background

187. gr\_\_e an image *n.* a place where a dead body is buried, typically marked by a headstone or other memorial; a very serious, solemn, or important matter; (verb) to carve, cut, or etch a design, inscription, or mark onto a hard surface, such as stone or metal; (adjective) serious, solemn, or weighty in nature
188. discrete com\_\_\_\_\_ics *n.* a branch of mathematics that deals with counting, arranging, and manipulating the combinations and permutations of elements in a set
189. ubi\_\_\_\_\_us computing *adj.* being or existing everywhere at once
190. sh\_\_\_\_\_e deck *v.* to move or mix around in a casual or unorganized way; to walk with short, dragging steps
191. pa\_\_\_\_\_nt scroll *n.* a thin, smooth, durable material made from the skin of a sheep or goat, used in the past as a writing surface
192. an ag\_\_\_\_\_te of people *n.* a collection or sum of different things often used to describe a total or combination of items
193. di\_\_\_e the cake into two pieces *v.* to separate or cause to separate into parts or groups
194. barren of cr\_\_\_\_\_ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
195. co\_\_x manuscript *n.* a manuscript book, especially one written in the medieval period, before the invention of printing

ANSWERS: 187. grave, 188. combinatorics, 189. ubiquitous, 190. shuffle, 191. parchment, 192. aggregate, 193. divide, 194. creative, 195. codex

196. a w\_\_t of summons *n.* a written legal order or command
197. mass of hu\_\_\_\_ty *n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.
198. the con\_\_\_\_\_ion law of physics *n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
199. de\_\_\_e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
200. ma\_\_\_\_\_y the image for display *v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
201. s\_\_d an old skin *v.* to get rid of something as superfluous or unwanted; to cast off hair, skin, horn, or feathers; (noun) an outbuilding with a single story, mainly used for shelter or storage
202. lab\_\_\_\_\_ry accident *n.* a workplace for doing scientific research or teaching science; a lab
203. me\_\_\_\_\_ta analysis *n.* information that describes or provides contextual details about other data, such as the content, structure, format, or authorship of a document or file
204. att\_\_\_\_\_ve men *adj.* immensely appealing in look or sound; having characteristics or qualities that make something appealing and valuable

ANSWERS: 196. writ, 197. humanity, 198. conservation, 199. decide, 200. magnify, 201. shed, 202. laboratory, 203. metadata, 204. attractive

205. pr\_\_\_\_le outcome *adj.* likely to happen or likely to be true
206. unr\_\_\_\_ted access *adj.* not limited or confined in any way
207. anthropology lab\_\_\_\_ry *n.* a workplace for doing scientific research or teaching science; a lab
208. community co\_\_\_\_s *n.* the House of Commons, which is one of the two houses of Parliament; a piece of land or an area set aside for public use, often used for recreation or grazing livestock; a shared or public resource
209. industry-sp\_\_\_\_ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
210. medieval pal\_\_\_\_st *n.* a manuscript or piece of writing material on which the original writing has been effaced to make room for later writing
211. in\_\_\_\_e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
212. se\_\_\_\_h desire *adj.* concerned primarily with one's profit or pleasure without regard for others; forming or arising from a person's self or interest
213. con\_\_\_\_or of the peace *n.* a person or organization whose job is to preserve works of art, buildings, and other things of cultural interest
214. 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

ANSWERS: 205. probable, 206. unrestricted, 207. laboratory, 208. commons, 209. specific, 210. palimpsest, 211. involve, 212. selfish, 213. conservator, 214. quark

215. an or\_\_\_\_ox doctrine *adj.* following or conforming to the traditional, normal, or commonly accepted beliefs, ideas, or activities; of or relating to Judaism; of or relating to the Eastern Orthodox Church
216. p\_\_y devoutly *v.* to make a request or petition to a higher power, especially in the form of a respectful or humble request
217. na\_\_\_n-state *n.* a large organized community of people living in a particular country or region and having a particular culture
218. financial sc\_\_\_e *n.* a person who writes out copies of documents or manuscripts, especially in ancient times
219. ele \_\_\_\_\_tic properties *adj.* of or relating to the magnetism produced by electric charge in motion
220. cl\_\_\_t full of suits *n.* a small room or cabinet with a door used for storing things, especially clothes
221. mat \_\_\_\_\_cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
222. res \_\_\_\_\_on on trade *n.* a limitation or constraint placed on something, or the act of limiting or constraining something
223. com \_\_\_\_\_ry piece *n.* an expression or explanation of opinions or observations on a particular subject, event, or situation; detailed analysis or explanation provided in writing or orally

ANSWERS: 215. orthodox, 216. pray, 217. nation, 218. scribe, 219. electromagnetic, 220. closet, 221. mathematics, 222. restriction, 223. commentary

224. bl\_\_k paper *adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
225. deliver powerful or\_\_\_\_y *n.* the art or skill of public speaking; the act or practice of delivering speeches or formal addresses in a persuasive and eloquent manner
226. ch\_\_\_h bell *n.* a building or institution dedicated to religious worship or activities; a Christian religious organization or denomination
227. 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
228. applied com\_\_\_\_\_ics *n.* a branch of mathematics that deals with counting, arranging, and manipulating the combinations and permutations of elements in a set
229. local bu\_\_\_\_r *n.* a person who prepares and sells meat, especially at a retail shop; a person who kills or slaughters animals, especially for food; a person who engages in the relentless or brutal treatment of others
230. sc\_\_\_e meat off a bone *v.* to draw something along a rough or hard surface, typically to remove dirt or other matter
231. charged le\_\_\_n *n.* a subatomic particle that is one of the basic building blocks of matter, having little or no mass and carrying an electrical charge

ANSWERS: 224. blank, 225. oratory, 226. church, 227. institute, 228. combinatorics, 229. butcher, 230. scrape, 231. lepton

232. have unr\_\_\_\_\_ted options      *adj.* not limited or confined in any way
233. Chinese cl\_\_\_\_\_c literature      *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
234. em\_\_\_\_\_fy egg yolks      *v.* to mix two or more liquids that normally don't dissolve in each other, such as oil and water, by adding an agent that helps to suspend the tiny droplets of one liquid within the other
235. a precise def\_\_\_\_\_on      *n.* a concise explanation of the meaning of a word, phrase, or symbol
236. su\_\_\_\_r bad grades      *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
237. vi\_\_l fence      *n.* a synthetic resin or plastic material that can be molded into various shapes and forms, particularly used in construction, furniture, and record production
238. soil con\_\_\_\_\_ion      *n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
239. a no\_\_e family      *adj.* having or showing excellent personal qualities or high moral principles that people admire
240. di\_\_\_\_\_ar after a week      *v.* to cease to exist or be visible
241. native to\_\_\_\_e      *n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language

ANSWERS: 232. unrestricted, 233. classic, 234. emulsify, 235. definition, 236. suffer, 237. vinyl, 238. conservation, 239. noble, 240. disappear, 241. tongue

242. ast\_\_\_\_\_ng achievement *adj.* surprising or shocking; difficult to believe
243. hu\_\_\_\_\_st philosophy *n.* a person who is concerned with the welfare and rights of all human beings; one who believes in the inherent worth and dignity of every person and stresses the importance of human values and ethical principles
244. re\_\_\_\_\_e a prisoner *v.* to set free or allow to escape from confinement
245. g\_\_e stick *n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
246. er\_\_e a memory *v.* to remove something completely, especially by rubbing it
247. pr\_\_\_\_\_le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
248. wr\_\_\_\_\_ff debts *n.* a cancellation or reduction of a debt or financial obligation; a loss or expense that can be deducted from one's taxable income; a dismissal or rejection of something as unimportant or unworthy of attention
249. absolutely fa\_\_\_\_\_ic event *adj.* extremely good; excellent
250. em\_\_\_\_\_fy fats and proteins *v.* to mix two or more liquids that normally don't dissolve in each other, such as oil and water, by adding an agent that helps to suspend the tiny droplets of one liquid within the other

ANSWERS: 242. astonishing, 243. humanist, 244. release, 245. glue, 246. erase, 247. principle, 248. write-off, 249. fantastic, 250. emulsify



251. a so\_\_r eclipse *adj.* of, from, or relating to the sun
252. b\_\_m of light *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
253. fo\_\_\_\_y scam *n.* the act of creating a fake or false document, object, or currency to deceive or defraud others; the item that has been created in such a way
254. a fa\_\_\_\_ic dress *adj.* extremely good; excellent
255. a good grounding in mat\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
256. asset wr\_\_\_\_ff *n.* a cancellation or reduction of a debt or financial obligation; a loss or expense that can be deducted from one's taxable income; a dismissal or rejection of something as unimportant or unworthy of attention
257. po\_\_\_\_on emission *n.* an antiparticle of the electron with a positive charge that has the same mass as the electron but an opposite charge
258. pr\_\_\_\_le cause of a fire *adj.* likely to happen or likely to be true
259. ancient man\_\_\_\_pt *n.* the original copy of a book, piece of music, etc. before it is printed
260. ch\_\_m against bad luck *n.* the power or quality of pleasing or fascinating people
261. become ess\_\_\_\_ly same *adv.* relating to the essential features or concepts of anything

ANSWERS: 251. solar, 252. beam, 253. forgery, 254. fantastic, 255. mathematics, 256. write-off, 257. positron, 258. probable, 259. manuscript, 260. charm, 261. essentially

262. neutral hydrogen a\_\_ms      *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
263. ut\_\_\_\_y costs      *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
264. re\_\_\_\_e CO2 into the air      *v.* to set free or allow to escape from confinement
265. syn\_\_\_\_\_on radiation      *n.* a large and powerful particle accelerator that produces highly intense beams of light or other particles, often used in scientific research, particularly in physics and chemistry
266. fr\_\_\_\_e ecosystem      *adj.* delicate or easily broken or damaged
267. the\_\_\_\_\_al physicist      *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
268. bo\_\_\_g day      *adj.* lacking interest or excitement; tedious or dull
269. arrested for tr\_\_\_\_n      *n.* the act of betraying one's country or government, especially by attempting to overthrow it or give aid and comfort to its enemies; a violation of allegiance or loyalty to one's country or government
270. cu\_\_\_e an art website      *n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

ANSWERS: 262. atom, 263. utility, 264. release, 265. synchrotron, 266. fragile, 267. theoretical, 268. boring, 269. treason, 270. curate

271. a f\_n of a plane *n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
272. re\_\_\_\_\_ne at the surface *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
273. ro\_\_\_\_\_ic breakup *adj.* of or relating to love or a sexual relationship
274. 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
275. I am te\_\_\_\_\_ly sorry *adv.* very badly; to a great extent or very much
276. data ag\_\_\_\_\_te *n.* a collection or sum of different things often used to describe a total or combination of items
277. a seafaring na\_\_\_\_n *n.* a large organized community of people living in a particular country or region and having a particular culture
278. vi\_\_\_\_\_y in the law court *n.* success in a game, competition, election, or battle, or the knowledge that you have won
279. b\_\_y emotion *v.* to place a dead body in the ground, grave, or tomb

ANSWERS: 271. fin, 272. recombine, 273. romantic, 274. process, 275. terribly, 276. aggregate, 277. nation, 278. victory, 279. bury

280. a we\_\_d dress *adj.* extraordinary, unexpected, or difficult to explain
281. gr\_\_e mistake *n.* a place where a dead body is buried, typically marked by a headstone or other memorial; a very serious, solemn, or important matter; (verb) to carve, cut, or etch a design, inscription, or mark onto a hard surface, such as stone or metal; (adjective) serious, solemn, or weighty in nature
282. un\_\_\_e design *adj.* being the only one of its kind; unlike anything else
283. acc\_\_\_\_\_te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
284. marginal ut\_\_\_\_\_y *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
285. tr\_\_\_\_\_re island *n.* a valuable or desirable possession; something that is cherished or held dear; a collection of valuable objects or money that is hidden or protected
286. the creative co\_\_\_\_\_s license *n.* the House of Commons, which is one of the two houses of Parliament; a piece of land or an area set aside for public use, often used for recreation or grazing livestock; a shared or public resource
287. ele\_\_\_\_\_tic radiation *adj.* of or relating to the magnetism produced by electric charge in motion

ANSWERS: 280. weird, 281. grave, 282. unique, 283. accelerate, 284. utility, 285. treasure, 286. commons, 287. electromagnetic

288. fr\_\_\_\_nt of a text *n.* a small piece or part broken off or detached
289. perpetual cu\_\_\_\_e *n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation
290. political com\_\_\_\_\_ry *n.* an expression or explanation of opinions or observations on a particular subject, event, or situation; detailed analysis or explanation provided in writing or orally
291. high tr\_\_\_\_\_n *n.* the act of betraying one's country or government, especially by attempting to overthrow it or give aid and comfort to its enemies; a violation of allegiance or loyalty to one's country or government
292. an X-\_\_y of arteries *n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
293. make ast\_\_\_\_\_ng gains *adj.* surprising or shocking; difficult to believe
294. blank ca\_\_\_\_s *n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
295. beam of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge

ANSWERS: 288. fragment, 289. curate, 290. commentary, 291. treason, 292. X-ray, 293. astonishing, 294. canvas, 295. electron

296. le\_\_\_n particle

*n.* a subatomic particle that is one of the basic building blocks of matter, having little or no mass and carrying an electrical charge

ANSWERS: 296. lepton

## Session 3: Fill in the Blanks

1. The soldier lived a \_\_\_\_\_ lifestyle, with few possessions and luxuries.  
*adj.* of or relating to Sparta (= a prominent city-state in Laconia, in ancient Greece) or its people; showing self-discipline and determination, especially in the face of hardship or adversity
2. We can calculate the position of the \_\_\_\_\_ statistically.  
*n.* a small piece of something; a word or piece of a term with grammatical function but little or no significance
3. I found an old \_\_\_\_\_ of my grandparents from their wedding day.  
*n.* a picture or image that is produced by a camera; a visual representation or record of a person, object, or scene that has been captured electronically or on film
4. He was served with a \_\_\_\_\_ of eviction, giving him the notice to vacate the property.  
*n.* a written legal order or command
5. Capitalism allows \_\_\_\_\_ property ownership for individuals.  
*adj.* not limited or confined in any way
6. The theory of \_\_\_\_\_ has numerous practical applications, including network design and scheduling.  
*n.* a branch of mathematics that deals with counting, arranging, and manipulating the combinations and permutations of elements in a set
7. 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

ANSWERS: 1. spartan, 2. particles, 3. photograph, 4. writ, 5. unrestricted, 6. combinatorics, 7. decide

8. The carpenter applied \_\_\_\_\_ to the cabinet joints before nailing them together.  
*n.* a sticky substance used for joining things together; a bonding agent made from animal or synthetic materials
9. The painting is \_\_\_\_\_ and there is no other like it.  
*adj.* being the only one of its kind; unlike anything else
10. The pirates searched for buried \_\_\_\_\_ in the dunes.  
*n.* a valuable or desirable possession; something that is cherished or held dear; a collection of valuable objects or money that is hidden or protected
11. He \_\_\_\_\_ the mud off his boots before entering the house.  
*v.* to draw something along a rough or hard surface, typically to remove dirt or other matter
12. Some scientists argue that the genes in food should not be artificially \_\_\_\_\_.  
*v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
13. There is plenty of space to \_\_\_\_\_ everyone.  
*v.* to place a dead body in the ground, grave, or tomb
14. The computer screen displayed nothing but a \_\_\_\_\_ white screen  
*adj.* without any writing or printing; empty or devoid of ideas, information, or meaning; unable to remember or recall information
15. It seems \_\_\_\_\_ that he has forgotten our scheduled meeting.  
*adj.* likely to happen or likely to be true

ANSWERS: 8. glue, 9. unique, 10. treasure, 11. scraped, 12. recombined, 13. bury, 14. blank, 15. probable



16. Mushrooms and \_\_\_\_\_ are fungi.

- n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long

17. Only the \_\_\_\_\_ tower remained standing.

- adj.* relating to or belonging to the Middle Age that is for the period of A.D.600 to A.D. 1450

18. Sensors convert physical phenomena into \_\_\_\_\_ signals.

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

19. The \_\_\_\_\_ on the beach was warm and golden.

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

20. Scientists use a high-energy \_\_\_\_\_ to accelerate particles for research purposes.

- n.* a large and powerful particle accelerator that produces highly intense beams of light or other particles, often used in scientific research, particularly in physics and chemistry

21. She needs to \_\_\_\_\_ the interview recording to write the article for the magazine.

- v.* to copy or reproduce something in written or printed form; to translate spoken language into written text

ANSWERS: 16. mold, 17. medieval, 18. digital, 19. sand, 20. synchrotron, 21. transcribe

22. The shark's powerful \_\_\_\_\_ allowed it to swim at high speeds.  
*n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
23. The government tried to \_\_\_\_\_ the commercialization of this development.  
*v.* to make something faster or earlier; to cause to develop or progress more quickly
24. The animal rights group worked to \_\_\_\_\_ the dolphins back into the wild.  
*v.* to set free or allow to escape from confinement
25. The \_\_\_\_\_ on the corner is hosting a free community meal tonight.  
*n.* a building or institution dedicated to religious worship or activities; a Christian religious organization or denomination
26. Life is a vast \_\_\_\_\_ you should put as much paint on it as possible.  
*n.* the heavy, closely woven fabric used for making tents, sails, etc. and by artists for painting on
27. I choose a \_\_\_\_\_ death rather than a shameful life.  
*adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor
28. These birds can only \_\_\_\_\_ in temperate climates.  
*v.* to live or exist despite a dangerous event or period
29. The \_\_\_\_\_ for applying for a visa can be lengthy and complicated.  
*n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 22. fins, 23. accelerate, 24. release, 25. church, 26. canvas;, 27. glorious, 28. survive, 29. process

30. Due to the economic downturn, the bank had to process many loan \_\_\_\_\_.
- n.* a cancellation or reduction of a debt or financial obligation; a loss or expense that can be deducted from one's taxable income; a dismissal or rejection of something as unimportant or unworthy of attention
31. The discovery of the muon \_\_\_\_\_ helped to confirm the existence of the weak nuclear force.
- n.* a subatomic particle that is one of the basic building blocks of matter, having little or no mass and carrying an electrical charge
32. I don't \_\_\_\_\_ take a vacation in the middle of summer.
- adv.* usually; under normal conditions
33. The \_\_\_\_\_ manuscript he discovered contained layers of text from different centuries, offering a fascinating glimpse into the past.
- n.* a manuscript or piece of writing material on which the original writing has been effaced to make room for later writing
34. They watched the train \_\_\_\_\_ into the distance.
- v.* to cease to exist or be visible
35. He's a vegetarian and was shocked to see so much meat in the \_\_\_\_\_ shop.
- n.* a person who prepares and sells meat, especially at a retail shop; a person who kills or slaughters animals, especially for food; a person who engages in the relentless or brutal treatment of others
36. 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: 30. write-offs, 31. lepton, 32. normally, 33. palimpsest, 34. disappear, 35. butcher, 36. theoretical

37. The sports \_\_\_\_\_ provided insightful analysis and observations throughout the game.

*n.* an expression or explanation of opinions or observations on a particular subject, event, or situation; detailed analysis or explanation provided in writing or orally

38. His \_\_\_\_\_ ambition caused him to step on others to climb the corporate ladder.

*adj.* concerned primarily with one's profit or pleasure without regard for others; forming or arising from a person's self or interest

39. I will \_\_\_\_\_ all the items on the grocery list to ensure we remember everything.

*v.* to list or mention a number of items or things one by one; to count or calculate systematically

40. 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

41. The \_\_\_\_\_ palace was a grand and imposing structure.

*adj.* relating to the pope (= the head of the Roman Catholic Church) or the Roman Catholic Church

42. The \_\_\_\_\_ for the Mass included hymns, prayers, and readings from the Bible.

*n.* a form of public worship or religious service, especially in the Christian Church

ANSWERS: 37. commentary, 38. selfish, 39. enumerate, 40. quark-gluon, 41. papal, 42. liturgy

43. White color is made up of many different \_\_\_\_\_ of light.  
*n.* the distance between two points in the same phase in consecutive cycles of a wave
44. \_\_\_\_\_ emission tomography, or PET, is a medical imaging technique.  
*n.* an antiparticle of the electron with a positive charge that has the same mass as the electron but an opposite charge
45. The doctor ordered an \_\_\_\_\_ to see if there was any damage to the bones.  
*n.* a type of electromagnetic radiation that has a wavelength shorter than visible light allowing hidden objects such as bones and organs inside the body to be photographed
46. The news of her sudden death was \_\_\_\_\_ to everyone who knew her.  
*adj.* surprising or shocking; difficult to believe
47. It was his first \_\_\_\_\_ love.  
*adj.* of or relating to love or a sexual relationship
48. Please refrigerate the meat, or it will \_\_\_\_\_.  
*v.* to decay, or cause something to decay, naturally and gradually
49. Carbon has an \_\_\_\_\_ mass of 12.  
*adj.* of or relating to atom (= the smallest component of an element)
50. The new amusement park ride was \_\_\_\_\_ with twists, turns, and drops that left riders screaming with excitement.  
*adj.* extremely good; excellent

ANSWERS: 43. wavelengths, 44. Positron, 45. X-ray, 46. astonishing, 47. romantic, 48. rot, 49. atomic, 50. fantastic,

51. The \_\_\_\_\_ is boneless, but it is as strong as bones.

*n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language

52. All the supervisor has to do is assign tasks that make his subordinates more \_\_\_\_\_.

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

53. The systems we have developed has accepted as industry \_\_\_\_\_.

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

54. A \_\_\_\_\_ engineer is still in demand in many companies.

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

55. The lecture was so \_\_\_\_\_ that many people fell asleep.

*adj.* lacking interest or excitement; tedious or dull

56. The growth of the "sharing economy" is \_\_\_\_\_ for tech companies.

*adj.* immensely appealing in look or sound; having characteristics or qualities that make something appealing and valuable

57. 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

58. The art museum was forced to close down temporarily due to concerns over \_\_\_\_\_ in their collection.

*n.* the act of creating a fake or false document, object, or currency to deceive or defraud others; the item that has been created in such a way

ANSWERS: 51. tongue, 52. creative, 53. norms, 54. mechanical, 55. boring, 56. attractive, 57. institutes, 58. forgery

59. The older man \_\_\_\_\_ from arthritis and finds it difficult to move around.  
*v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
60. He studied the \_\_\_\_\_ of radiation.  
*n.* the science of matter and energy and their interactions
61. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.  
*n.* a tiny particle with the negative electrical charge
62. He \_\_\_\_\_ back in time to the soccer game.  
*v.* to move along very quickly; (noun) the act of rising upward into the air
63. The shirt is made of a soft \_\_\_\_\_ fabric.  
*n.* a synthetic material made from cellulose acetate that is used to make various consumer products such as clothing, upholstery, and packaging materials
64. He displayed the \_\_\_\_\_ symptoms of depression.  
*adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
65. The vase was made of \_\_\_\_\_ ceramic and easily broke when it was dropped.  
*adj.* delicate or easily broken or damaged
66. The charismatic \_\_\_\_\_ captivated the audience with his powerful speech.  
*n.* a skilled public speaker, particularly one who is eloquent and persuasive; someone who delivers speeches or addresses an audience
67. He tried every possible treatment, including chemotherapy and \_\_\_\_\_ therapy.  
*n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 59. suffers, 60. physics, 61. electron, 62. zoomed, 63. acetate, 64. classic, 65. fragile, 66. orator, 67. radiation

68. These are significantly more exquisite than typical \_\_\_\_\_ bracelets.  
*n.* the power or quality of pleasing or fascinating people
69. The \_\_\_\_\_ for a video game includes information about the game's platform and release date.  
*n.* information that describes or provides contextual details about other data, such as the content, structure, format, or authorship of a document or file
70. This consulting firm decided to \_\_\_\_\_ the two companies into one.  
*v.* to combine or integrate things, or to cause this to happen
71. The \_\_\_\_\_ academy was known for its strict discipline and training.  
*adj.* relating to or characteristic of members of the armed forces; of or relating to war or warfare
72. The \_\_\_\_\_ counselor encouraged her clients to focus on their growth and well-being.  
*n.* a person who is concerned with the welfare and rights of all human beings; one who believes in the inherent worth and dignity of every person and stresses the importance of human values and ethical principles
73. He brushed the suit before hanging it back into the \_\_\_\_\_.  
*n.* a small room or cabinet with a door used for storing things, especially clothes
74. He is drawing a \_\_\_\_\_ illustrating how the equipment operates.  
*n.* a simplified illustration of the appearance, structure, or workings of something
75. The comedian's \_\_\_\_\_ of the recent political scandal drew laughs from the crowd.  
*n.* the act of ridiculing or making fun of someone or something, often in a contemptuous or mocking manner

ANSWERS: 68. charm, 69. metadata, 70. merge, 71. military, 72. humanist, 73. closet, 74. diagram, 75. mockery



76. The forest was recently designated a \_\_\_\_\_ area.
- n.* the protection of something important, such as the natural environment or artificial structures, especially from the damaging effects of human activity
77. The record store has a large selection of \_\_\_\_\_ albums.
- n.* a synthetic resin or plastic material that can be molded into various shapes and forms, particularly used in construction, furniture, and record production
78. I am \_\_\_\_\_ opposed to his idea because of morality.
- adv.* without restriction or limitation; completely or utterly
79. He challenged the \_\_\_\_\_ views on business.
- adj.* following or conforming to the traditional, normal, or commonly accepted beliefs, ideas, or activities; of or relating to Judaism; of or relating to the Eastern Orthodox Church
80. The \_\_\_\_\_ on travel during the pandemic made it difficult for people to see their loved ones.
- n.* a limitation or constraint placed on something, or the act of limiting or constraining something
81. Her \_\_\_\_\_ manner relaxed everyone there.
- adj.* having or showing a kindly or tender nature; soft and mild
82. The body needs a certain amount of \_\_\_\_\_ to build and repair tissues.
- n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
83. The company's hiring criteria emphasize personality, not a person's \_\_\_\_\_.
- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

ANSWERS: 76. conservation, 77. vinyl, 78. absolutely, 79. orthodox, 80. restriction, 81. gentle, 82. protein, 83. background

84. The \_\_\_\_\_ of the tree had fallen and blocked the road.
- n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
85. His angry expression was not a pleasant sight to \_\_\_\_\_.
- v.* to look at and observe with attention
86. The study of \_\_\_\_\_ is important for understanding the history, culture, and civilization of the past and their influence on the present.
- n.* the ancient past, especially the period of classical civilization
87. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.
- n.* a workplace for doing scientific research or teaching science; a lab
88. The investigation \_\_\_\_\_ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
89. We largely \_\_\_\_\_ the circuit board of cell phones because they contain a lot of valuable metals.
- v.* to sort and collect things to process them and produce valuable materials that can be used again
90. The ancient scroll was written on \_\_\_\_\_ and carefully preserved in a museum.
- n.* a thin, smooth, durable material made from the skin of a sheep or goat, used in the past as a writing surface
91. The archaeologists found a \_\_\_\_\_ buried alongside a mummy in an underground tomb.
- n.* a manuscript book, especially one written in the medieval period, before the invention of printing

ANSWERS: 84. branch, 85. behold, 86. antiquity, 87. laboratory, 88. involves, 89. recycle, 90. parchment, 91. codex

92. This company has invested heavily in Internet \_\_\_\_\_.
- n.* the activity of buying and selling things, especially on a large scale
93. She has a minor curved \_\_\_\_\_ due to desk work for many years.
- n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
94. The \_\_\_\_\_ amount of money raised for the charity was over a million dollars.
- n.* a collection or sum of different things often used to describe a total or combination of items
95. She received her \_\_\_\_\_ in psychology from the university.
- n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
96. The \_\_\_\_\_ of Japan is known for its unique culture and advanced technology.
- n.* a large organized community of people living in a particular country or region and having a particular culture
97. We usually regard justices as peace \_\_\_\_\_.
- n.* a person or organization whose job is to preserve works of art, buildings, and other things of cultural interest
98. They have been living near water since \_\_\_\_\_ times.
- adj.* relating to the long ago, particularly the historical period preceding the fall of the Western Roman Empire; very old
99. He sealed the letter with a \_\_\_\_\_ seal.
- n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

ANSWERS: 92. commerce, 93. spine, 94. aggregate, 95. degree, 96. nation, 97. conservators, 98. ancient, 99. wax

100. Before driving, ensure you have a valid driver's \_\_\_\_\_.
- n.* an official permission or authorization to do, use, or own something; a legal document that grants the holder the right to perform certain activities, such as driving a car, practicing a profession, or using a particular product or service
101. The political \_\_\_\_\_ within the party was causing conflicts and disagreements.
- n.* a group within an organization or political party that is in disagreement with the majority or seeks to create change in policies or leadership
102. The archaeologist carefully pieced together the tiny \_\_\_\_\_ of pottery found at the dig site.
- n.* a small piece or part broken off or detached
103. The \_\_\_\_\_ camera revealed a hidden image on the surface.
- adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
104. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.
- adj.* of or relating to the magnetism produced by electric charge in motion
105. The scientist conducted a study that provided \_\_\_\_\_ details about the species' behavior.
- adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
106. Her research in comparative \_\_\_\_\_ has unveiled connections between seemingly disparate languages.
- n.* the study of language in written historical sources, including the history and development of languages, their structures, and their relationships to one another

ANSWERS: 100. license, 101. faction, 102. fragments, 103. infrared, 104. electromagnetic, 105. specific, 106. philology

107. He \_\_\_\_\_ a secret tear when he heard the news of his friend's death.

- v.* to get rid of something as superfluous or unwanted; to cast off hair, skin, horn, or feathers; (noun) an outbuilding with a single story, mainly used for shelter or storage

108. She \_\_\_\_\_ the cards before dealing them to the players.

- v.* to move or mix around in a casual or unorganized way; to walk with short, dragging steps

109. He attempted to \_\_\_\_\_ the misspelled word.

- v.* to remove something completely, especially by rubbing it

110. She closed her eyes and \_\_\_\_\_ for strength to overcome difficult times.

- v.* to make a request or petition to a higher power, especially in the form of a respectful or humble request

111. My computer has been acting \_\_\_\_\_ recently.

- adj.* extraordinary, unexpected, or difficult to explain

112. 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

113. \_\_\_\_\_ radiation can cause skin damage if one is exposed for too long.

- adj.* relating to or occupying the part of the spectrum beyond the violet end, especially radiation

114. Ethics is a branch of \_\_\_\_\_.

- n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

ANSWERS: 107. shed, 108. shuffled, 109. erase, 110. prayed, 111. weird, 112. definition, 113. Ultraviolet, 114. philosophy

115. He is a \_\_\_\_\_ man

*adj.* having or showing excellent personal qualities or high moral principles that people admire

116. You must \_\_\_\_\_ your anxiety about driving.

*v.* to bring under control by force or authority

117. The \_\_\_\_\_ of the device was immediately apparent to all who saw it.

*n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public

118. \_\_\_\_\_ panels have greatly improved not only in performance but also in durability.

*adj.* of, from, or relating to the sun

119. The art museum has hired a \_\_\_\_\_ to select and display pieces from its collection.

*n.* a clergyman who is in charge of a parish; a person in charge of a museum, gallery, or church, responsible for the care and display of its collections and exhibitions; (verb) to carefully select, organize, and maintain items in a collection, exhibition, or presentation

120. \_\_\_\_\_ music has gained different followers from existing music.

*adj.* belonging to the same or present time

121. The \_\_\_\_\_ of his discovery cannot be overstated.

*n.* the importance or value attached to something; the quality of being significant or noteworthy

122. His arm was swollen and \_\_\_\_\_ red.

*adv.* very badly; to a great extent or very much

ANSWERS: 115. noble-minded, 116. conquer, 117. utility, 118. Solar, 119. curate, 120. Contemporary, 121. significance, 122. terribly

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

*adj.* impossible or nearly impossible to see

124. Terrorists often attempt to \_\_\_\_\_ the economic impact of their acts of destruction.

*v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder

125. The \_\_\_\_\_ of the green dye made it easy to see the bacteria under the microscope.

*n.* the property of certain substances to absorb light at one wavelength and emit light at a longer wavelength, often producing a visible glow or color change; the visible light or color change resulting from this process

126. He has a flair for \_\_\_\_\_.

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

127. You must first \_\_\_\_\_ the oil and vinegar to make the salad dressing.

*v.* to mix two or more liquids that normally don't dissolve in each other, such as oil and water, by adding an agent that helps to suspend the tiny droplets of one liquid within the other

128. The tragedy of the \_\_\_\_\_ is an economic theory explaining how individual actions can deplete shared resources.

*n.* the House of Commons, which is one of the two houses of Parliament; a piece of land or an area set aside for public use, often used for recreation or grazing livestock; a shared or public resource

129. The company is taking legal action against those who have violated their \_\_\_\_\_ on the software.

*n.* the legal right to be the only person or organization who can reproduce, publish, and sell a particular piece of work

ANSWERS: 123. invisible, 124. magnify, 125. fluorescence, 126. mathematics, 127. emulsify, 128. commons, 129. copyright

130. 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
131. Many innocent civilians were killed and buried in mass \_\_\_\_\_ outside the city during the war.
- n.* a place where a dead body is buried, typically marked by a headstone or other memorial; a very serious, solemn, or important matter; (verb) to carve, cut, or etch a design, inscription, or mark onto a hard surface, such as stone or metal; (adjective) serious, solemn, or weighty in nature
132. The widow of a deceased writer discovered an incomplete novel \_\_\_\_\_ in his room.
- n.* the original copy of a book, piece of music, etc. before it is printed
133. Sugar is \_\_\_\_\_ in food.
- adj.* being or existing everywhere at once
134. We are optimistic about our final \_\_\_\_\_.
- n.* success in a game, competition, election, or battle, or the knowledge that you have won
135. Efficiency isn't an essential \_\_\_\_\_ here; fairness is.
- n.* a fundamental law or truth that explains or controls how something happens or works
136. They donated large sums of money for the development of \_\_\_\_\_.
- n.* all people living on the earth; the quality or state of being human rather than an animal, a machine, etc.

ANSWERS: 130. discovery, 131. graves, 132. manuscript, 133. ubiquitous, 134. victory, 135. principle, 136. humanity



137. The \_\_\_\_ protein has been found to play a role in the development of Alzheimer's disease and other neurological disorders.
- n.* the 19th letter of the Greek alphabet, transliterated as "t"; (of physics, tau particle) a fundamental particle known as the tau lepton that is an elementary particle with a negative electric charge and a spin of 1/2
138. The political party \_\_\_\_\_ after much internal fighting.
- v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
139. Can you \_\_\_\_\_ 123321 by eleven?
- v.* to separate or cause to separate into parts or groups
140. The politician's \_\_\_\_\_ skills were admired by many and helped him sway public opinion.
- n.* the art or skill of public speaking; the act or practice of delivering speeches or formal addresses in a persuasive and eloquent manner
141. The animal was \_\_\_\_\_ in a small cage.
- v.* to restrict the movement of someone or something
142. The sun's \_\_\_\_ shone through the window and illuminated the room.
- n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
143. The outermost electron \_\_\_\_\_ determines the chemical properties of an atom.
- n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
144. The \_\_\_\_\_ skills were in high demand in medieval times, when many people were illiterate.
- n.* a person who writes out copies of documents or manuscripts, especially in ancient times

ANSWERS: 137. tau, 138. dissolved, 139. divide, 140. oratory, 141. confined, 142. beam, 143. shell, 144. scribe's

145. The outermost electron shell of an \_\_\_\_\_ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
146. We must \_\_\_\_\_ ourselves of pollution.
- v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
147. The rebels were sentenced to death for committing acts of \_\_\_\_\_ against the state.
- n.* the act of betraying one's country or government, especially by attempting to overthrow it or give aid and comfort to its enemies; a violation of allegiance or loyalty to one's country or government
148. \_\_\_\_\_ a society is an organism.
- adv.* relating to the essential features or concepts of anything

ANSWERS: 145. atom, 146. rid, 147. treason, 148. Essentially,