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## Vocabulary Builder Reference from...

Lee Cronin: Making matter come alive | TED Talk

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### All Words

#### IMPORTANT

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## Session 1: Word List

### ambitious

*adj.* having a great desire to attain achievement, power, or wealth

*synonym* : enterprising, challenging, earnest

(1) achieve **ambitious** goals, (2) with an **ambitious** eye  
Their company has been in business for a short time but has **ambitious** goals.

### quest

*n.* a long or challenging search for something

*synonym* : exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness  
That adventurer traveled in **quest** of buried treasure.

### planet

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

*synonym* : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**  
Mercury is the closest **planet** to the sun.

### organic

*adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

*synonym* : biological

(1) **organic** soils, (2) eat **organic** food

The kidney is an **organic** component of the body.

## biology

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

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

## inorganic

*adj.* being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon

(1) **inorganic** acid, (2) **inorganic** nutrition

**Inorganic** substances include rocks and minerals.

## chemistry

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

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

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

## colleague

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

*synonym*: coworker, associate, fellow

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

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

## distinction

*n.* a difference or contrast between similar things or people

*synonym*: eminence, noteworthiness, excellence

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

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

## transform

*v.* to change in outward structure or looks;

*synonym*: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

## 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.

## enthrall

*v.* to capture or hold someone's attention or interest completely; to captivate or fascinate

*synonym* : captivate, charm, fascinate

(1) **enthrall** with beauty, (2) **enthrall** the reader

The magician's illusions always managed to **enthrall** the audience.

## synthetic

*adj.* made by combining chemical substances as opposed to being naturally occurring

*synonym* : artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

**Synthetic** diamonds play an essential role as machine tool blades.

## manipulate

*v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way

*synonym* : control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate**

Please tell me how to **manipulate** this computer.

## infrastructure

*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

*synonym* : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

## evolution

*n.* a gradual process of transformation of living things

*synonym* : elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory  
They study the **evolution** of the universe.

## vast

*adj.* enormous in size, number, amount, or quantity  
*synonym*: expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

## intangible

*n.* not having physical form or substance; difficult to touch or grasp

*synonym*: abstract, immaterial

(1) **intangible** asset, (2) **intangible** property rights

The **intangible** qualities of love and kindness are immeasurable.

## survival

*n.* the state of continuing to exist or live, frequently in the face of difficulty or danger

*synonym*: endurance, continuity

(1) **survival** ability, (2) **survival** food

He evaluated his chances for **survival** rather pessimistically.

## metaphysics

*n.* the branch of philosophy that deals with the fundamental nature and the first principles of reality, including abstract concepts such as being, knowing, identity, time, and space

(1) **metaphysics** study, (2) the nature of **metaphysics**

Kant's thoughts provided the foundational ideas for treating **metaphysics** as a discipline.

## offspring

*n.* descendant; any immature animal or plant

*synonym*: children, descendants, heirs

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

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

## compete

*v.* to strive to achieve more success than someone or something

*synonym*: contend, contest, vie

(1) **compete** against a friend, (2) **compete** fiercely  
You must **compete** with others to obtain this position.

## bearing

*n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another

*synonym* : demeanor, posture, manner

(1) a thrust **bearing**, (2) a military **bearing**

The pilot had to adjust the plane's **bearing** to stay on course.

## frustrate

*v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

*synonym* : hinder, thwart, dishearten

(1) **frustrate** the advancement, (2) **frustrate** other team members

The coach explained a strategy to **frustrate** the opponent's schemes to the players.

## minimal

*adj.* tiny in amount; the least possible

*synonym* : tiniest, essential, minimum

(1) **minimal** effort, (2) **minimal** amount

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

## undergo

*v.* to go through something unpleasant or that involves a change

*synonym* : experience, suffer, endure

(1) **undergo** surgery, (2) **undergo** a decrease

The train has to **undergo** rigorous safety checks.

## profound

*adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

*synonym* : deep, unsounded, far-reaching

(1) a **profound** book, (2) the **profound** depths of the sea

My mother's illness had a **profound** impact on us all.

## suddenly

*adv.* quickly and unexpectedly

*synonym* : abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

## evolve

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

*synonym* : develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

## independence

*n.* freedom from another's or others' control or influence

*synonym* : freedom, liberty, autonomy

(1) financial **independence**, (2) **independence** ceremony

There is nothing more valuable than **independence** and freedom.

## bacteria

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

*synonym* : microorganism, microbe

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

**Bacteria** prevalent in hospitals are often resistant to antibiotics.

## reverse

*v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

*synonym* : overturn, shift, switch

(1) **reverse** the trend, (2) **reverse** the order

The restaurant **reversed** a ban on smoking.

## crystal

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

*synonym* : quartz

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

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

## pollinate

*v.* to transfer pollen from the male part of a flower to the female part, thereby fertilizing the plant and allowing it to produce fruit or seeds; to spread or disseminate an idea or influence to others

*synonym* : fertilize, propagate

(1) **pollinate** plants, (2) **pollinate** fruit trees

Without bees to **pollinate** the flowers, many crops would not exist.

## germinate

*v.* to begin to grow or develop, typically as a seed sprouts

*synonym* : sprout, grow, develop

(1) days to **germinate**, (2) **germinate** the idea

The seeds **germinated** quickly in the warm soil.

## tube

*n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

*synonym* : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

## microscope

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

*synonym* : lens, magnifier, eyepiece

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

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

## experiment

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

*synonym* : experimentation, investigation

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

His **experiments** showed highly positive results.

## fascinate

*v.* to attract and hold the attention of someone deeply and irresistibly

*synonym* : captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

## lifelike

*adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

*synonym* : realistic, naturalistic, vivid

(1) **lifelike** painting, (2) **lifelike** animation

The artist created a **lifelike** sculpture of a famous politician for the town square.

## pause

*v.* to take a short break from talking or doing something before continuing

*synonym* : halt, break, intermit

(1) **pause** a moment, (2) **pause** for a reaction

The man **paused** before opening the door.

## architecture

*n.* the art and science of designing and constructing buildings

*synonym* : design, structure, layout

(1) **architecture** design, (2) classic **architecture**

The city is known for its impressive **architecture** and beautiful old buildings.

## void

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

*synonym* : emptiness, vacuity, (adjective) null

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

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

## mimic

*v.* to imitate someone's speech, movement, or behavior, especially to make others laugh

*synonym* : mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments



He is very popular at school because he can **mimic** all the teachers' accents.

## incredible

*adj.* unbelievable; enormous

*synonym* : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

## miracle

*n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God

*synonym* : wonder, marvel, phenomenon

(1) **miracle** person, (2) economic **miracle**

The doctors said that her recovery was a **miracle**.

## universe

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

*synonym* : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

## 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.

## improbable

*adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring

*synonym* : unlikely, doubtful, implausible

(1) **improbable** story, (2) **improbable** event

It is **improbable** that we will find a solution to this problem overnight.

## emergence

*n.* the process or fact of coming into existence or becoming apparent

*synonym* : appearance, outgrowth, rise

(1) **emergence** as a national leader, (2) re- **emergence** of rampant inflation

The **emergence** of a new virus can cause concern for public health.

## 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.

## physics

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

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

He studied the **physics** of radiation.

## fusion

*n.* the process of combining two or more things to form a single entity

*synonym*: merger, consolidation, amalgamation

(1) heat **fusion**, (2) **fusion** cuisine

Nuclear **fusion** is a process in which atomic nuclei combine to form heavier nuclei.

## encode

*v.* to convert information into a code or format suitable for storage or transmission

*synonym*: transcribe, convert

(1) **encode** data, (2) **encode** information

The software can **encode** and decode encrypted messages.

## massive

*adj.* enormous amount; very heavy and solid

*synonym*: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

## advantage

*n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that

someone or something has

*synonym* : benefit, edge, asset

(1) score an **advantage**, (2) take **advantage** of his weak points

One of the main **advantages** of the new product is its increased efficiency.

## element

*n.* a fundamental or essential part of something

*synonym* : component, feature, essence

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

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

## carbon

*n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

## diversity

*n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

*synonym* : variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

## amazing

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

*synonym* : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

## life-form

*n.* a living organism, especially one that has a distinct shape, structure, or behavior

*synonym* : organism, species, living organism

(1) **life-form** discovery, (2) a minute **life-form**  
Scientists are searching for signs of **life-form** on other planets.

## awful

*adj.* causing fear, dread, or terror; very bad or unpleasant  
*synonym*: terrible, appalling, horrible

(1) an **awful** error, (2) do **awful** damage

I regretted making an **awful** mistake in my final exam.

## lab

*n.* a workplace for the conduct of scientific research; a laboratory

*synonym*: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

## biohazard

*n.* a biological substance or infectious agent that poses a threat to human health or the environment, typically requiring special handling, containment, or disposal procedures to prevent the spread of disease or contamination

*synonym*: biothreat, infectious material

(1) **biohazard** waste, (2) **biohazard** containment

Workers in the lab must wear protective clothing due to the **biohazard** materials present.

## hazard

*n.* something dangerous and likely to cause damage

*synonym*: peril, danger, threat

(1) occupational **hazard**, (2) potential health **hazards**

Lost mobile phones lead to another potential **hazard** regarding privacy.

## replicate

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

*synonym*: duplicate, imitate, reproduce

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

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

## characterize

*v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of  
*synonym*: describe, depict, portray

(1) **characterize** the relationship, (2) **characterize** his work  
Their love of discovery and exploration often **characterizes** the adventurous spirit of the explorer.

## forgiveness

*n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion  
*synonym*: pardon, amnesty, compassion

(1) **forgiveness** of liabilities, (2) beg for **forgiveness**  
He gained debt **forgiveness**.

## complicated

*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze  
*synonym*: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**  
He did **complicated** pen-and-ink drawings in just a few days.

## 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.

## pathway

*n.* a track that constitutes or serves as a path; an approach or a way of doing something  
*synonym*: route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling **pathways**  
When the first molecule in the **pathway** receives a signal, it

activates other molecules.

## obvious

*adj.* easy to see, discover or understand

*synonym* : apparent, conspicuous, evident

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

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

## fascinating

*adj.* extremely interesting

*synonym* : alluring, intriguing, captivating

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

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

## molecule

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

*synonym* : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

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

## disease

*n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

*synonym* : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

## regulation

*n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule

*synonym* : constraint, restriction, rule

(1) a company **regulation**, (2) **regulation** by the government

The **regulation** approved by Congress was perfunctorily implemented.

## 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.

## catalyst

*n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

*synonym*: accelerator, stimulant, motivation

(1) a **catalyst** in the process of hydrolysis, (2) **catalyst** for reform

The global financial crisis acted as a **catalyst** to unite the country.

## 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?

## 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.

## flame

*n.* a bright, visible light and heat source caused by combustion; a strong, intense feeling typically associated with passion, aggression, or anger

*synonym*: blaze, inferno, fire

(1) **flame** of passion, (2) simmering **flame**

The **flame** of the candle flickered in the darkness of the room.

## metabolism

*n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**  
Better sleep leads to increased **metabolism**.

## burning

*adj.* intense or scorching heat

*synonym*: scorching, blazing, smoldering

(1) **burning** desire, (2) **burning** passion

The fire spread rapidly, engulfing everything in its path in a **burning** inferno.

## artificial

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

*synonym*: synthetic, man-made, manufactured

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

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

## origin

*n.* the first existence or beginning of something

*synonym*: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

## muse

*n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists

*synonym*: source of inspiration, minstrel, versifier

(1) **muse** inspiration, (2) creative **muse**

She gazed out the window, deep in thought, as if waiting for her **muse** to strike.

## emerge

*v.* to move out of or away from something and become visible

*synonym*: arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.



## pond

*n.* a small, shallow lake

*synonym* : lake, pool, basin

(1) a garden **pond**, (2) **pond** water

The freshwater **pond** was home to many different types of fish and was a popular spot for fishing.

## chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

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

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

## 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.

## ancestor

*n.* a person from whom one is descended; a forefather

*synonym* : forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

## roadblock

*n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective

*synonym* : obstacle, barrier, blockade

(1) biological **roadblock**, (2) bypass **roadblock**

The accident caused a **roadblock** on the highway, causing traffic to come to a standstill.

## decode

*v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand

*synonym* : decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

## genome

*n.* the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion chemical base pairs.

## mitochondria

*n.* (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food

(1) a membrane of a **mitochondria**, (2) healthy **mitochondria**

**Mitochondria** DNA is used to trace human lineage and migration footprints.

## visible

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

*synonym*: clear, observable, seeable

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

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

## sequence

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

*synonym*: arrangement, succession, series

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

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

## opt

*v.* to make a choice from a range of possibilities

*synonym*: choose, select, pick

(1) **opt** out of society, (2) **opt** for a traditional wedding

I decided to **opt** for premature retirement.

## intelligent

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

*synonym*: brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system  
**Intelligent** robots that can cooperate with humans have limited motor output for safety.

## indirect

*adj.* happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way

*synonym*: unintended, ambiguous, ancillary

(1) **indirect** taxation, (2) **indirect** lighting  
He expressed his dissatisfaction in an **indirect** way.

## politician

*n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.

*synonym*: congressperson, lawmaker, legislator

(1) a **politician** in the ruling party, (2) a corrupt **politician**  
The **politician** lost his position in the end due to the scandal.

## complexity

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

*synonym*: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory  
The project's **complexity** made it difficult for the team to complete it on time.

## primordial

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

*synonym*: ancient, original, primary

(1) **primordial** forms of life, (2) **primordial** gas  
The discovery of the **primordial** soup was a crucial step in understanding the origins of life on Earth.

## amino

*n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH<sub>2</sub>) that combine to make protein

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

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

## acid

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

*synonym*: sour

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

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

## combine

*v.* to join or merge to form a single thing or group

*synonym*: coalesce, cohere, blend

(1) **combine** chemically with another substance,  
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

## 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.

## equivalent

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

*synonym*: equal, counterpart, match

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

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

## ingredient

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

*synonym*:

element, component

(1) secret **ingredients**, (2) compound the **ingredients**  
Greed is the primary **ingredient** in the making of criminals.

## jar

*n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

*synonym*: container, vessel, pot

(1) a **jar** of jam, (2) a water **jar**

He placed the coins in a **jar** to save for a trip.

## ignite

*v.* to set on fire; to cause to start burning

*synonym*: light, set fire to, enkindle

(1) **ignite** a boom, (2) **ignite** passion

He **ignited** the fireworks with a single spark.

## voltage

*n.* the difference in the force of an electric current between two points

(1) the **voltage** spiked, (2) low **voltage**

Connecting batteries in series increase the **voltage** of the circuit.

## stick

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

*synonym*: pierce, adhere, stay

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

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

## reignite

*v.* to cause something to start burning again

*synonym*: rekindle, revive, renew

(1) **reignite** my interest, (2) **reignite** the spark

His speech **reignited** the passion of the crowd.

## analytical

*adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze

*synonym* : investigative, logical, cogent

(1) **analytical** approach, (2) **analytical** ability

He is **analytical** and can break down complex problems into manageable parts.

## 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**.

## reaction

*n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

*synonym* : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

## flask

*n.* a container with a narrow neck and wide, flat body used for holding and carrying liquids

*synonym* : bottle, container, vial

(1) lab **flask**, (2) vacuum **flask**

The chemist poured the solution from the beaker into the **flask**.

## fluid

*n.* a substance that can flow and is not solid

*synonym* : liquid, aqua, sap

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

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

## lithograph

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to

paper using ink, and then printing multiple copies of the design

*synonym* : print, etching, engraving

(1) **lithograph** print, (2) limited edition **lithograph**

The art gallery showcased a collection of colorful **lithographic** prints by renowned artists.

## droplet

*n.* a small drop of liquid

*synonym* : bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

## bubble

*n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

*synonym* : blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**

Many people worry that the current real estate market is a **bubble** that could burst soon.

## container

*n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

*synonym* : receptacle, holder, vessel

(1) plastic **container**, (2) **container** ship

The restaurant uses large **containers** to store its food ingredients.

## cellular

*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

*synonym* : organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

## kit

*n.* a set of tools, supplies, or equipment for a particular purpose

*synonym*: set, package, bundle

(1) survival **kit**, (2) a first-aid **kit**

I bought a new tool **kit** for my home repair projects.

## 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.

## literally

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

*synonym*: actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

## nanoscale

*adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

## molecular

*adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

*synonym*: microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

**Molecular** weight is the sum of all the atoms.

## sight

*n.* the ability to see; anything that is seen

*synonym*: vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**



Many famous **sights** are within walking distance.

## ban

*v.* to officially or legally forbid or refuse to allow something  
*synonym* : forbid, prohibit, restrict

(1) **ban** gender-related job discrimination, (2) **ban** any type of cloning

We should **ban** mildly violent video games from a child's development perspective.

## storage

*n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

*synonym* : storehouse, depository, warehousing

(1) a **storage** battery, (2) **storage** at low temperature

We store customer data in cloud **storage**.

## membrane

*n.* a soft, thin layer that forms animal or vegetable tissue

*synonym* : tissue layer

(1) cell **membranes**, (2) nuclear **membrane**

Loud noises might harm the fragile ear **membrane**.

## Darwinism

*n.* the theory of evolution proposed by Charles Darwin, stating that species evolve through natural selection, survival of the fittest, and adaptation to the environment

*synonym* : evolution, natural selection

(1) digital **Darwinism**, (2) economic **Darwinism**

The concept of Social **Darwinism** was often misused to justify socioeconomic inequalities.

## competition

*n.* a situation in which someone is attempting to beat or outperform another

*synonym* : contest, match, fight

(1) the first round of the **competition**, (2) intraspecific **competition**

Global **competition** is rising in virtually every industry.

## **persist**

v. to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable

*synonym*: endure, continue, carry on

(1) **persist** over time, (2) **persist** in success

Consult your doctor if the symptoms **persist**.

## **encourage**

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

*synonym*: facilitate, persuade, stimulate

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

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

## **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.

## **propose**

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

*synonym*: suggest, offer, recommend

(1) **propose** the amendment, (2) **propose** changes

I want to **propose** a toast in honor of our longstanding relationship.

## **sophistication**

n. the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

*synonym*: refinement, culture, elegance

(1) cultural **sophistication**, (2) linguistic **sophistication**

The new technology added a level of **sophistication** to the manufacturing process.

## develop

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

*synonym*: evolve, progress, advance

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

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

## platform

- n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

*synonym*: stage, podium, forum

(1) an arrival **platform**, (2) a digital **platform** for enterprise

The speaker mounted the **platform** and started to speak.

## explore

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

*synonym*: analyze, delve into, examine

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

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

## sustain

- v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

*synonym*: maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

## software

- n. a set of computer programs and associated documentation and data for doing particular computational jobs

*synonym*: program, system, operating system

(1) **software** architect, (2) copyrighted **software**  
The company specializes in both hardware and **software**.

## environment

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

*synonym* : atmosphere, surroundings, climate

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

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

## inspiration

*n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

*synonym* : motivation, drive, encouragement

(1) source of **inspiration**, (2) get **inspiration** from nature

He found **inspiration** in the works of his favorite authors.

## reorganize

*v.* to change to a more sufficient or suitable form of organization

*synonym* : rearrange, reconstruct, reshuffle

(1) **reorganize** a department, (2) **reorganize** his debts

The new CEO was appointed to **reorganize** their business.

## symbiotic

*adj.* involving two varieties of animal or plant, each of which supplies the conditions for the other to exist

(1) **symbiotic** economy, (2) **symbiotic** bacteria

We have a mutually **symbiotic** connection with them.

## relation

*n.* the way two persons or groups of people feel and act toward one another

*synonym* : association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

## **fuse**

*n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

*synonym*: (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

## **dimension**

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

*synonym*: extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

## **fitness**

*n.* the quality or state of being physically fit and healthy; the ability to perform physical tasks and activities with ease and efficiency

*synonym*: health, wellness, physical condition

(1) **fitness** level, (2) **fitness** instructor

Regular exercise is crucial for maintaining one's **fitness**.

## **function**

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

*synonym*: purpose, mapping, job

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

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

## **realization**

*n.* the act or process of understanding or becoming aware of something; the act of achieving or completing something that was planned or desired; the act of making something real or tangible

*synonym*: achievement, attainment, understanding

(1) **realization** of a concept, (2) harsh **realization**

Her sudden **realization** of her mistake caused her great regret.

### concept

*n.* an idea or principle associated with something abstract  
*synonym*: idea, notion, vision

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

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

### 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.

### gene

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

*synonym*: factor, cistron

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

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

### inanimate

*adj.* not having life or spirit; not animate

*synonym*: lifeless, inert, passive

(1) **inanimate** nature, (2) **inanimate** matter

The **inanimate** object was not capable of movement or feeling.

### enslave

*v.* to make someone a slave; to deprive someone of their freedom of choice or action

*synonym*: coerce, deprive, imprison

(1) **enslave** poor peasants, (2) **enslave** indigenous people

Her beauty **enslaved** me completely.

### appealing

*adj.* attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage

someone to like or enjoy something

*synonym* : attractive, alluring, captivating

(1) **appealing** design, (2) an **appealing** offer

The well-crafted plot and interesting characters made the book very **appealing** to readers

## exciting

*adj.* causing a lot of interest or excitement

*synonym* : exhilarating, stimulating, thrilling

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

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

## specify

*v.* to explain or state something clearly and exactly

*synonym* : establish, pinpoint, identify

(1) **specify** a cause, (2) **specify** an option

You can **specify** the font color by clicking the Color tab.

## define

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

*synonym* : characterize, depict, express

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

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

## struggle

*v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

*synonym* : toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

## timeline

*n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom

*synonym* : agenda, timetable, chronology

(1) **timeline** of science history, (2) lay out a **timeline**  
He imposed a **timeline** on the project.

## lee

*n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind

*synonym*: shelter, refuge, hideout

(1) a natural **lee**, (2) the **lee** of the building

The hiker found a calm spot in the **lee** of the mountain to set up camp.

## hop

*v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

*synonym*: jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another

The rabbit **hopped** over the fence.

## chant

*n.* a simple melody or tune, typically one that is repeated or sung in a monotonous way; (verb) recite with musical intonation

*synonym*: hymn, mantra, (verb) recite

(1) **chant** melodies, (2) **chant** in the chapel

The soccer game crowd broke into a **chant** of "Go, team, go!"

## ooze

*v.* to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily

*synonym*: flow, seep, drip

(1) **ooze** from the speakers, (2) **ooze** with confidence

The wound on his leg continued to **ooze** blood even after he applied pressure.

## chauvinist

*n.* a person who is aggressively or excessively patriotic and who believes in the superiority of their gender, race, or nationality, often to the detriment or oppression of others

*synonym*



: jingo, nationalist, misogynist

(1) **chauvinist** beliefs, (2) racial **chauvinist**

His **chauvinistic** attitudes towards immigrants were offensive and ignorant.

## Session 2: Spelling

- |                                      |  |
|--------------------------------------|--|
| 1. economic mi_____e                 | <i>n.</i> an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God                                    |
| 2. st_____e at low temperature       | <i>n.</i> the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information |
| 3. en_____e poor peasants            | <i>v.</i> to make someone a slave; to deprive someone of their freedom of choice or action   |
| 4. earliest human an_____or          | <i>n.</i> a person from whom one is descended; a forefather  |
| 5. em____e from poverty              | <i>v.</i> to move out of or away from something and become visible   |
| 6. take ad_____ge of his weak points | <i>n.</i> a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has                 |
| 7. small mo_____les                  | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds  |
| 8. in_____ct taxation                | <i>adj.</i> happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way       |

ANSWERS: 1. miracle, 2. storage, 3. enslave, 4. ancestor, 5. emerge, 6. advantage, 7. molecule, 8. indirect

9. for\_\_\_\_\_ss of liabilities *n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion
10. in\_\_\_\_\_te nature *adj.* not having life or spirit; not animate
11. in\_\_\_\_\_ct lighting *adj.* happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way
12. cha\_\_\_\_\_st beliefs *n.* a person who is aggressively or excessively patriotic and who believes in the superiority of their gender, race, or nationality, often to the detriment or oppression of others
13. int\_\_\_\_\_le property rights *n.* not having physical form or substance; difficult to touch or grasp
14. translate li\_\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
15. a ce\_\_\_\_\_ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
16. pr\_\_\_\_\_e the amendment *v.* to make a proposal, declare a plan for something
17. ca\_\_\_\_n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 9. forgiveness, 10. inanimate, 11. indirect, 12. chauvinist, 13. intangible, 14. literally, 15. cellular, 16. propose, 17. carbon

18. a j\_r of jam *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
19. z\_\_m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
20. lit\_\_\_\_\_ph print *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design
21. cellular signaling pa\_\_\_\_\_ys *n.* a track that constitutes or serves as a path; an approach or a way of doing something
22. exp\_\_\_\_\_nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
23. sp\_\_\_\_\_y a cause *v.* to explain or state something clearly and exactly
24. his conclusion was ob\_\_\_\_\_s *adj.* easy to see, discover or understand
25. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
26. lingual di\_\_\_\_\_ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
27. en\_\_\_\_\_ll the reader *v.* to capture or hold someone's attention or interest completely; to captivate or fascinate

ANSWERS: 18. jar, 19. zoom, 20. lithograph, 21. pathway, 22. experiment, 23. specify, 24. obvious, 25. complexity, 26. diversity, 27. enthrall

28. su\_\_\_\_\_e a plane crash  
*v.* to live or exist despite a dangerous event or period
29. fas\_\_\_\_\_ng story  
*adj.* extremely interesting
30. am\_\_o compound  
*n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH<sub>2</sub>) that combine to make protein
31. nuclear ph\_\_\_\_\_s  
*n.* the science of matter and energy and their interactions
32. fr\_\_\_\_\_te the advancement  
*v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
33. occupational ha\_\_\_\_d  
*n.* something dangerous and likely to cause damage
34. new design el\_\_\_\_\_ts  
*n.* a fundamental or essential part of something
35. ti\_\_\_\_\_ne of science history  
*n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom
36. trigger a re\_\_\_\_\_on  
*n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
37. former co\_\_\_\_\_ue  
*n.* one of a group of a coworker, especially in a profession or a business
38. equ\_\_\_\_\_nt in meaning  
*n.* having the same value, quality, meaning, purpose, etc.

ANSWERS: 28. survive, 29. fascinating, 30. amino, 31. physics, 32. frustrate, 33. hazard, 34. element, 35. timeline, 36. reaction, 37. colleague, 38. equivalent

39. de\_\_\_\_p a strategy      *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
40. tra\_\_\_\_\_be documents      *v.* to copy or reproduce something in written or printed form; to translate spoken language into written text
41. potential health ha\_\_\_\_ds      *n.* something dangerous and likely to cause damage
42. ana\_\_\_\_\_al ability      *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
43. compound the ing\_\_\_\_\_nts      *n.* one of the things used to make something, especially one of the foods used to make a particular dish
44. re\_\_\_\_te the spark      *v.* to cause something to start burning again
45. do aw\_\_l damage      *adj.* causing fear, dread, or terror; very bad or unpleasant
46. racial or\_\_\_\_n      *n.* the first existence or beginning of something
47. score an ad\_\_\_\_\_ge      *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

ANSWERS: 39. develop, 40. transcribe, 41. hazard, 42. analytical, 43. ingredient, 44. reignite, 45. awful, 46. origin, 47. advantage

48. an ap\_\_\_\_\_ng offer *adj.* attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something
49. di\_\_\_\_\_e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
50. co\_\_\_\_\_e against a friend *v.* to strive to achieve more success than someone or something
51. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
52. plenty of fl\_\_ds *n.* a substance that can flow and is not solid
53. re\_\_\_\_\_e the order *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear
54. a natural l\_e *n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind
55. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
56. important dis\_\_\_\_\_on *n.* a difference or contrast between similar things or people
57. su\_\_\_\_\_e a blizzard *v.* to live or exist despite a dangerous event or period

ANSWERS: 48. appealing, 49. disease, 50. compete, 51. incredible, 52. fluid, 53. reverse, 54. lee, 55. biology, 56. distinction, 57. survive

58. in\_\_\_\_\_te matter *adj.* not having life or spirit; not animate
59. heat fu\_\_\_n *n.* the process of combining two or more things to form a single entity
60. pr\_\_\_\_\_le outcome *adj.* likely to happen or likely to be true
61. professor of ch\_\_\_\_\_ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
62. or\_\_\_\_\_c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
63. ex\_\_\_\_\_ng news *adj.* causing a lot of interest or excitement
64. ma\_\_\_\_\_e stars *adj.* enormous amount; very heavy and solid
65. fa\_\_\_\_\_te the public *v.* to attract and hold the attention of someone deeply and irresistibly
66. beg for for\_\_\_\_\_ss *n.* the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion
67. am\_\_o acid *n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH<sub>2</sub>) that combine to make protein
68. intraspecific com\_\_\_\_\_on *n.* a situation in which someone is attempting to beat or outperform another
69. a capillary t\_\_e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 58. inanimate, 59. fusion, 60. probable, 61. chemistry, 62. organic, 63. exciting, 64. massive, 65. fascinate, 66. forgiveness, 67. amino, 68. competition, 69. tube



70. po\_\_\_\_\_te fruit trees      *v.* to transfer pollen from the male part of a flower to the female part, thereby fertilizing the plant and allowing it to produce fruit or seeds; to spread or disseminate an idea or influence to others
71. achieve am\_\_\_\_\_us goals      *adj.* having a great desire to attain achievement, power, or wealth
72. nonmetallic el\_\_\_\_\_ts      *n.* a fundamental or essential part of something
73. a st\_\_\_\_\_e battery      *n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information
74. dr\_\_\_\_\_t size      *n.* a small drop of liquid
75. m\_\_e inspiration      *n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists
76. co\_\_\_\_\_e chemically with another substance      *v.* to join or merge to form a single thing or group
77. evolutionary bi\_\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things
78. a membrane of a mit\_\_\_\_\_ria      *n.* (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food

ANSWERS: 70. pollinate, 71. ambitious, 72. element, 73. storage, 74. droplet, 75. muse, 76. combine, 77. biology, 78. mitochondria

79. g\_\_e expression *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
80. an\_\_\_\_or language *n.* a person from whom one is descended; a forefather
81. fu\_\_\_\_on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
82. fi\_\_\_\_s instructor *n.* the quality or state of being physically fit and healthy; the ability to perform physical tasks and activities with ease and efficiency
83. su\_\_\_\_n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
84. an int\_\_\_\_nt person *adj.* having the capacity for thought and reason, especially to a high degree
85. an aw\_\_l error *adj.* causing fear, dread, or terror; very bad or unpleasant
86. tr\_\_\_\_rm an education system *v.* to change in outward structure or looks;
87. absolutely fa\_\_\_\_ic event *adj.* extremely good; excellent
88. plastic co\_\_\_\_er *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

ANSWERS: 79. gene, 80. ancestor, 81. function, 82. fitness, 83. sustain, 84. intelligent, 85. awful, 86. transform, 87. fantastic, 88. container

89. racial cha\_\_\_\_\_st *n.* a person who is aggressively or excessively patriotic and who believes in the superiority of their gender, race, or nationality, often to the detriment or oppression of others
90. ig\_\_\_e a boom *v.* to set on fire; to cause to start burning
91. o\_t out of society *v.* to make a choice from a range of possibilities
92. bypass ro\_\_\_\_\_ck *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
93. su\_\_\_\_\_ly attacked by an enemy *adv.* quickly and unexpectedly
94. ca\_\_\_n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
95. de\_\_\_e a word *v.* to state or explain precisely the nature, scope, or meaning of something
96. abs\_\_\_\_\_ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
97. equ\_\_\_\_\_nt amounts *n.* having the same value, quality, meaning, purpose, etc.
98. pathogenic ba\_\_\_\_\_ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 89. chauvinist, 90. ignite, 91. opt, 92. roadblock, 93. suddenly, 94. carbon, 95. define, 96. absolutely, 97. equivalent, 98. bacteria

99. get ins\_\_\_\_\_on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
100. female of\_\_\_\_\_ng *n.* descendant; any immature animal or plant
101. cr\_\_\_\_\_l analyses *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
102. harsh rea\_\_\_\_\_on *n.* the act or process of understanding or becoming aware of something; the act of achieving or completing something that was planned or desired; the act of making something real or tangible
103. inf\_\_\_\_\_ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
104. tra\_\_\_\_\_be notes *v.* to copy or reproduce something in written or printed form; to translate spoken language into written text
105. eat or\_\_\_\_\_c food *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
106. rea\_\_\_\_\_on of a concept *n.* the act or process of understanding or becoming aware of something; the act of achieving or completing something that was planned or desired; the act of making something real or tangible

ANSWERS: 99. inspiration, 100. offspring, 101. crystal, 102. realization, 103. infrastructure, 104. transcribe, 105. organic, 106. realization

107. hemoglobin met\_\_\_\_\_sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
108. li\_\_\_\_\_ke animation *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior
109. ce\_\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
110. source of ins\_\_\_\_\_on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
111. un\_\_\_\_\_o surgery *v.* to go through something unpleasant or that involves a change
112. in a di\_\_\_\_\_m *n.* a simplified illustration of the appearance, structure, or workings of something
113. with an am\_\_\_\_\_us eye *adj.* having a great desire to attain achievement, power, or wealth
114. reg\_\_\_\_\_on by the government *n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
115. reo\_\_\_\_\_ze his debts *v.* to change to a more sufficient or suitable form of organization

ANSWERS: 107. metabolism, 108. lifelike, 109. cellular, 110. inspiration, 111. undergo, 112. diagram, 113. ambitious, 114. regulation, 115. reorganize

116. ex\_\_\_\_\_ng football player *adj.* causing a lot of interest or excitement
117. re\_\_\_\_\_te my interest *v.* to cause something to start burning again
118. digital Da\_\_\_\_\_sm *n.* the theory of evolution proposed by Charles Darwin, stating that species evolve through natural selection, survival of the fittest, and adaptation to the environment
119. fa\_\_\_\_\_te the young *v.* to attract and hold the attention of someone deeply and irresistibly
120. mo\_\_\_\_\_le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
121. bu\_\_\_e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
122. ex\_\_\_\_\_e the world *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
123. a ch\_\_\_\_\_al compound *adj.* relating to or connected with chemistry;
124. am\_\_\_\_\_g advances *adj.* extremely surprising, especially in a way that you like or admire
125. na\_\_\_\_\_le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

ANSWERS: 116. exciting, 117. reignite, 118. Darwinism, 119. fascinate, 120. molecule, 121. bubble, 122. explore, 123. chemical, 124. amazing, 125. nanoscale

126. b\_n any type of cloning *v.* to officially or legally forbid or refuse to allow something
127. series of exp\_\_\_\_\_nts *n.* the scientific test conducted to observe what happens and gain new knowledge
128. fl\_\_d assets *n.* a substance that can flow and is not solid
129. mic\_\_\_\_\_pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
130. pr\_\_\_\_\_e changes *v.* to make a proposal, declare a plan for something
131. sequencing of the human ge\_\_\_\_e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
132. o\_\_e with confidence *v.* to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily
133. o\_\_e from the speakers *v.* to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily
134. re\_\_\_\_\_on of inclusion *n.* the way two persons or groups of people feel and act toward one another
135. a glass t\_\_e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
136. en\_\_\_\_\_ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

ANSWERS: 126. ban, 127. experiment, 128. fluid, 129. microscope, 130. propose, 131. genome, 132. ooze, 133. ooze, 134. relation, 135. tube, 136. encourage

137. g\_\_e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
138. env\_\_\_\_\_nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
139. re\_\_\_\_\_te the cell *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
140. creative m\_\_e *n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists
141. good source of essential amino a\_\_ds *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
142. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
143. h\_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
144. a first-aid k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
145. su\_\_\_\_\_n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid

ANSWERS: 137. gene, 138. environment, 139. replicate, 140. muse, 141. acid, 142. evolve, 143. hop, 144. kit, 145. sustain



146. medical l_b	<i>n.</i> a workplace for the conduct of scientific research; a laboratory
147. dr____t formation	<i>n.</i> a small drop of liquid
148. cognitive com____ty	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand
149. sy____ic fiber	<i>adj.</i> made by combining chemical substances as opposed to being naturally occurring
150. a corrupt pol____an	<i>n.</i> a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
151. ap____ng design	<i>adj.</i> attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something
152. p__d water	<i>n.</i> a small, shallow lake
153. v__d of expression	<i>n.</i> an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force
154. en____e indigenous people	<i>v.</i> to make someone a slave; to deprive someone of their freedom of choice or action
155. 3D di____m	<i>n.</i> a simplified illustration of the appearance, structure, or workings of something
156. se____h motive	<i>adj.</i> concerned primarily with one's profit or pleasure without regard for others; forming or arising from a person's self or interest

ANSWERS: 146. lab, 147. droplet, 148. complexity, 149. synthetic, 150. politician, 151. appealing, 152. pond, 153. void, 154. enslave, 155. diagram, 156. selfish

157. the crosswise di\_\_\_\_\_on      *n.* a measurable extent of a particular kind, such as width, height, or length
158. the l\_e of the building      *n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind
159. human ev\_\_\_\_\_on      *n.* a gradual process of transformation of living things
160. toxic ch\_\_\_\_\_als      *adj.* relating to or connected with chemistry;
161. co\_\_\_\_\_e fiercely      *v.* to strive to achieve more success than someone or something
162. fr\_\_\_\_\_te other team members      *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
163. pe\_\_\_\_\_t over time      *v.* to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable
164. pa\_\_\_\_\_y to understanding      *n.* a track that constitutes or serves as a path; an approach or a way of doing something
165. cell me\_\_\_\_\_nes      *n.* a soft, thin layer that forms animal or vegetable tissue
166. ch\_\_t in the chapel      *n.* a simple melody or tune, typically one that is repeated or sung in a monotonous way; (verb) recite with musical intonation

ANSWERS: 157. dimension, 158. lee, 159. evolution, 160. chemical, 161. compete, 162. frustrate, 163. persist, 164. pathway, 165. membrane, 166. chant

167. pa\_\_e for a reaction      *v.* to take a short break from talking or doing something before continuing
168. ge\_\_\_e analyses      *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
169. so\_\_\_\_\_re architect      *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
170. expansion of the un\_\_\_\_\_se      *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
171. arc\_\_\_\_\_ure design      *n.* the art and science of designing and constructing buildings
172. fire st\_\_k      *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
173. li\_\_\_\_\_rm discovery      *n.* a living organism, especially one that has a distinct shape, structure, or behavior
174. the most am\_\_\_\_\_g feeling      *adj.* extremely surprising, especially in a way that you like or admire
175. the pr\_\_\_\_\_nd depths of the sea      *adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension
176. the qu\_\_t for truth      *n.* a long or challenging search for something

ANSWERS: 167. pause, 168. genome, 169. software, 170. universe, 171. architecture, 172. stick, 173. life-form, 174. amazing, 175. profound, 176. quest

177. de\_\_\_\_p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
178. in\_\_\_\_\_ic nutrition *adj.* being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon
179. on a qu\_\_t for happiness *n.* a long or challenging search for something
180. sy\_\_\_\_\_ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
181. immune fu\_\_\_\_\_on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
182. re-em\_\_\_\_\_ce of rampant inflation *n.* the process or fact of coming into existence or becoming apparent
183. pa\_\_e a moment *v.* to take a short break from talking or doing something before continuing
184. an arrival pl\_\_\_\_\_rm *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

ANSWERS: 177. develop, 178. inorganic, 179. quest, 180. synthetic, 181. function, 182. emergence, 183. pause, 184. platform

185. 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
186. new di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length
187. su\_\_\_\_\_al food *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
188. ability to de\_\_\_e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
189. ge\_\_\_\_\_te the idea *v.* to begin to grow or develop, typically as a seed sprouts
190. or\_\_\_n of information *n.* the first existence or beginning of something
191. en\_\_\_e information *v.* to convert information into a code or format suitable for storage or transmission
192. collaborate with co\_\_\_\_\_ues *n.* one of a group of a coworker, especially in a profession or a business
193. pr\_\_\_\_\_le cause of a fire *adj.* likely to happen or likely to be true
194. de\_\_\_e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
195. the nature of met\_\_\_\_\_cs *n.* the branch of philosophy that deals with the fundamental nature and the first principles of reality, including abstract concepts such as being, knowing, identity, time, and space

ANSWERS: 185. protein, 186. dimension, 187. survival, 188. decode, 189. germinate, 190. origin, 191. encode, 192. colleague, 193. probable, 194. decode, 195. metaphysics

196. a company reg\_\_\_\_\_on *n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
197. en\_\_\_\_\_ll with beauty *v.* to capture or hold someone's attention or interest completely; to captivate or fascinate
198. cha\_\_\_\_\_ize his work *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
199. re\_\_\_\_\_te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
200. mo\_\_\_\_\_ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
201. art\_\_\_\_\_al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
202. mi\_\_c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
203. cultural sop\_\_\_\_\_ion *n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
204. lab\_\_\_\_\_ry accident *n.* a workplace for doing scientific research or teaching science; a lab

ANSWERS: 196. regulation, 197. enthrall, 198. characterize, 199. replicate, 200. molecular, 201. artificial, 202. mimic, 203. sophistication, 204. laboratory

205. pri\_\_\_\_\_al forms of life *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
206. the first round of the com\_\_\_\_\_on *n.* a situation in which someone is attempting to beat or outperform another
207. produce of\_\_\_\_\_ng *n.* descendant; any immature animal or plant
208. save the pl\_\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
209. mo\_\_\_\_\_ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
210. mi\_\_\_\_\_l effort *adj.* tiny in amount; the least possible
211. a thrust be\_\_\_\_\_g *n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
212. vi\_\_\_\_\_e stars *adj.* capable of being seen; or open to easy view
213. f\_\_e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 205. primordial, 206. competition, 207. offspring, 208. planet, 209. molecular, 210. minimal, 211. bearing, 212. visible, 213. fuse

214. z\_\_m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
215. biological ro\_\_\_\_\_ck *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
216. co\_\_\_\_\_er ship *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
217. en\_\_\_\_\_ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
218. ex\_\_\_\_\_e our options *v.* to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
219. sp\_\_\_\_\_y an option *v.* to explain or state something clearly and exactly
220. a garden p\_\_d *n.* a small, shallow lake
221. met\_\_\_\_\_cs study *n.* the branch of philosophy that deals with the fundamental nature and the first principles of reality, including abstract concepts such as being, knowing, identity, time, and space
222. nuclear me\_\_\_\_\_ne *n.* a soft, thin layer that forms animal or vegetable tissue

ANSWERS: 214. zoom, 215. roadblock, 216. container, 217. encourage, 218. explore, 219. specify, 220. pond, 221. metaphysics, 222. membrane



223. chemical re\_\_\_\_\_on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
224. low vo\_\_\_\_\_e *n.* the difference in the force of an electric current between two points
225. cha\_\_\_\_\_ize the relationship *v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
226. a pol\_\_\_\_\_an in the ruling party *n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
227. di\_\_\_\_\_e money equally *v.* to separate or cause to separate into parts or groups
228. em\_\_\_\_\_e as a butterfly *v.* to move out of or away from something and become visible
229. vacuum fl\_\_k *n.* a container with a narrow neck and wide, flat body used for holding and carrying liquids
230. mi\_\_\_\_\_l amount *adj.* tiny in amount; the least possible
231. reo\_\_\_\_\_ze a department *v.* to change to a more sufficient or suitable form of organization
232. man\_\_\_\_\_te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
233. st\_\_\_\_\_le against discrimination *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

ANSWERS: 223. reaction, 224. voltage, 225. characterize, 226. politician, 227. divide, 228. emerge, 229. flask, 230. minimal, 231. reorganize, 232. manipulate, 233. struggle

234. a fa\_\_\_\_\_ic dress *adj.* extremely good; excellent
235. learn new co\_\_\_\_\_ts *n.* an idea or principle associated with something abstract
236. ind\_\_\_\_\_nce ceremony *n.* freedom from another's or others' control or influence
237. bu\_\_\_\_\_g desire *adj.* intense or scorching heat
238. data ag\_\_\_\_\_te *n.* a collection or sum of different things often used to describe a total or combination of items
239. st\_\_\_\_\_le to get the job *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
240. imp\_\_\_\_\_le story *adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring
241. a digital pl\_\_\_\_\_rm for enterprise *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
242. draw a dis\_\_\_\_\_on *n.* a difference or contrast between similar things or people
243. electron mic\_\_\_\_\_pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
244. copyrighted so\_\_\_\_\_re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 234. fantastic, 235. concept, 236. independence, 237. burning, 238. aggregate, 239. struggle, 240. improbable, 241. platform, 242. distinction, 243. microscope, 244. software

245. en\_\_\_e data *v.* to convert information into a code or format suitable for storage or transmission
246. pl\_\_\_t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
247. sy\_\_\_\_\_ic bacteria *adj.* involving two varieties of animal or plant, each of which supplies the conditions for the other to exist
248. fi\_\_\_\_\_s level *n.* the quality or state of being physically fit and healthy; the ability to perform physical tasks and activities with ease and efficiency
249. art\_\_\_\_\_al environment *adj.* not natural and made by human beings; not real but produced to resemble something
250. healthy mit\_\_\_\_\_ria *n.* (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
251. int\_\_\_\_\_nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
252. a com\_\_\_\_\_ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
253. in\_\_\_\_\_ic acid *adj.* being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon

ANSWERS: 245. encode, 246. planet, 247. symbiotic, 248. fitness, 249. artificial, 250. mitochondria, 251. intelligent, 252. complicated, 253. inorganic

254. fu\_\_\_n cuisine *n.* the process of combining two or more things to form a single entity
255. financial ind\_\_\_\_\_nce *n.* freedom from another's or others' control or influence
256. economic bu\_\_\_e *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
257. a military be\_\_\_\_\_g *n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
258. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
259. a water j\_r *n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials
260. di\_\_\_\_\_e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
261. vulnerable to man\_\_\_\_\_te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
262. bu\_\_\_\_\_g passion *adj.* intense or scorching heat

ANSWERS: 254. fusion, 255. independence, 256. bubble, 257. bearing, 258. incredible, 259. jar, 260. disease, 261. manipulate, 262. burning

263. survival k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
264. 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
265. bite his tongue li\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
266. re\_\_\_\_on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
267. simmering fl\_\_e *n.* a bright, visible light and heat source caused by combustion; a strong, intense feeling typically associated with passion, aggression, or anger
268. st\_\_k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
269. ig\_\_\_e passion *v.* to set on fire; to cause to start burning
270. die su\_\_\_\_ly *adv.* quickly and unexpectedly
271. ma\_\_\_\_e amounts *adj.* enormous amount; very heavy and solid
272. pri\_\_\_\_al gas *adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
273. co\_\_\_\_t car *n.* an idea or principle associated with something abstract

ANSWERS: 263. kit, 264. protein, 265. literally, 266. relation, 267. flame, 268. stick, 269. ignite, 270. suddenly, 271. massive, 272. primordial, 273. concept

274. things at the na\_\_\_\_\_le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
275. economic Da\_\_\_\_\_sm *n.* the theory of evolution proposed by Charles Darwin, stating that species evolve through natural selection, survival of the fittest, and adaptation to the environment
276. liquid cr\_\_\_\_\_l *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
277. become increasingly com\_\_\_\_\_ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
278. tr\_\_\_\_\_rm heat into power *v.* to change in outward structure or looks;
279. v\_\_t desert *adj.* enormous in size, number, amount, or quantity
280. int\_\_\_\_\_le asset *n.* not having physical form or substance; difficult to touch or grasp
281. dull si\_\_t *n.* the ability to see; anything that is seen
282. imp\_\_\_\_\_le event *adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring
283. anthropology lab\_\_\_\_\_ry *n.* a workplace for doing scientific research or teaching science; a lab

ANSWERS: 274. nanoscale, 275. Darwinism, 276. crystal, 277. complicated, 278. transform, 279. vast, 280. intangible, 281. sight, 282. improbable, 283. laboratory

284. pe\_\_\_\_\_t in success      *v.* to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable
285. v\_\_t majority      *adj.* enormous in size, number, amount, or quantity
286. em\_\_\_\_\_ce as a national leader      *n.* the process or fact of coming into existence or becoming apparent
287. theory of the un\_\_\_\_\_se      *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
288. bi\_\_\_\_\_rd waste      *n.* a biological substance or infectious agent that poses a threat to human health or the environment, typically requiring special handling, containment, or disposal procedures to prevent the spread of disease or contamination
289. co\_\_\_\_\_e augmented reality      *v.* to join or merge to form a single thing or group
290. a minute li\_\_\_\_\_rm      *n.* a living organism, especially one that has a distinct shape, structure, or behavior
291. ev\_\_\_\_\_on theory      *n.* a gradual process of transformation of living things
292. ca\_\_\_\_\_st for reform      *n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

ANSWERS: 284. persist, 285. vast, 286. emergence, 287. universe, 288. biohazard, 289. combine, 290. life-form, 291. evolution, 292. catalyst

293. an ag\_\_\_\_\_te of people *n.* a collection or sum of different things often used to describe a total or combination of items
294. o\_t for a traditional wedding *v.* to make a choice from a range of possibilities
295. abs\_\_\_\_\_ly against *adv.* without restriction or limitation; completely or utterly
296. met\_\_\_\_\_sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
297. 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
298. fl\_\_e of passion *n.* a bright, visible light and heat source caused by combustion; a strong, intense feeling typically associated with passion, aggression, or anger
299. the ch\_\_\_\_\_ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
300. un\_\_\_\_\_o a decrease *v.* to go through something unpleasant or that involves a change
301. laws of ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
302. bi\_\_\_\_\_rd containment *n.* a biological substance or infectious agent that poses a threat to human health or the environment, typically requiring special handling, containment, or disposal procedures to prevent the spread of disease or contamination

ANSWERS: 293. aggregate, 294. opt, 295. absolutely, 296. metabolism, 297. selfish, 298. flame, 299. chemistry, 300. undergo, 301. physics, 302. biohazard



303. li\_\_\_\_\_ke painting *adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior
304. harmless ba\_\_\_\_\_ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
305. vi\_\_\_\_\_e by X-ray *adj.* capable of being seen; or open to easy view
306. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
307. ob\_\_\_\_\_s reasons *adj.* easy to see, discover or understand
308. de\_\_\_\_e my position *v.* to state or explain precisely the nature, scope, or meaning of something
309. the vo\_\_\_\_\_e spiked *n.* the difference in the force of an electric current between two points
310. su\_\_\_\_\_al ability *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
311. ana\_\_\_\_\_al approach *adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze
312. the di\_\_\_\_\_ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

ANSWERS: 303. lifelike, 304. bacteria, 305. visible, 306. lab, 307. obvious, 308. define, 309. voltage, 310. survival, 311. analytical, 312. diversity

313. a pr\_\_\_\_nd book *adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension
314. v\_\_d contract *n.* an empty space; a feeling of emptiness; (adjective) lacking any legal or binding force
315. lab fl\_\_k *n.* a container with a narrow neck and wide, flat body used for holding and carrying liquids
316. the se\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
317. mi\_\_c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
318. a ca\_\_\_\_st in the process of hydrolysis *n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself
319. sy\_\_\_\_ic economy *adj.* involving two varieties of animal or plant, each of which supplies the conditions for the other to exist
320. ch\_\_t melodies *n.* a simple melody or tune, typically one that is repeated or sung in a monotonous way; (verb) recite with musical intonation
321. re\_\_\_\_e the trend *v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear

ANSWERS: 313. profound, 314. void, 315. flask, 316. sequence, 317. mimic, 318. catalyst, 319. symbiotic, 320. chant, 321. reverse

322. secret ing\_\_\_\_\_nts      *n.* one of the things used to make something, especially one of the foods used to make a particular dish
323. lay out a ti\_\_\_\_\_ne      *n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom
324. f\_\_e with one another      *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
325. bo\_\_\_g day      *adj.* lacking interest or excitement; tedious or dull
326. h\_p on one foot      *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
327. an unexpected si\_\_t      *n.* the ability to see; anything that is seen
328. an a\_\_d reaction      *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
329. b\_n gender-related job discrimination      *v.* to officially or legally forbid or refuse to allow something
330. limited edition lit\_\_\_\_\_ph      *n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

ANSWERS: 322. ingredient, 323. timeline, 324. fuse, 325. boring, 326. hop, 327. sight, 328. acid, 329. ban, 330. lithograph

331. po\_\_\_\_\_te plants      *v.* to transfer pollen from the male part of a flower to the female part, thereby fertilizing the plant and allowing it to produce fruit or seeds; to spread or disseminate an idea or influence to others
332. mi\_\_\_\_\_e person      *n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
333. classic arc\_\_\_\_\_ure      *n.* the art and science of designing and constructing buildings
334. ev\_\_\_e      *v.* to develop gradually, or to cause the development of something or someone gradually
335. chaotic env\_\_\_\_\_nt      *n.* the natural world such as air, water, and land in which humans, animals, and plants live
336. di\_\_\_e the cake into two pieces      *v.* to separate or cause to separate into parts or groups
337. completely fas\_\_\_\_\_ng to me      *adj.* extremely interesting
338. IT inf\_\_\_\_\_ure      *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
339. days to ge\_\_\_\_\_te      *v.* to begin to grow or develop, typically as a seed sprouts
340. the DNA se\_\_\_\_\_ce      *n.* a series of related events, actions, numbers, etc., which have a particular order

ANSWERS: 331. pollinate, 332. miracle, 333. architecture, 334. evolve, 335. environment, 336. divide, 337. fascinating, 338. infrastructure, 339. germinate, 340. sequence

341. bo\_\_\_g work

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

342. linguistic sop\_\_\_\_\_ion

*n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined

ANSWERS: 341. boring, 342. sophistication

## Session 3: Fill in the Blanks

1. Workers in the lab must wear protective clothing due to the \_\_\_\_\_ materials present.
  - n.* a biological substance or infectious agent that poses a threat to human health or the environment, typically requiring special handling, containment, or disposal procedures to prevent the spread of disease or contamination
  
2. The concept of Social \_\_\_\_\_ was often misused to justify socioeconomic inequalities.
  - n.* the theory of evolution proposed by Charles Darwin, stating that species evolve through natural selection, survival of the fittest, and adaptation to the environment
  
3. There are \_\_\_\_\_ differences between the two wine-producing regions.
  - adj.* easy to see, discover or understand
  
4. Who answers \_\_\_\_\_ knows little.
  - adv.* quickly and unexpectedly
  
5. Scientists are searching for signs of \_\_\_\_\_ on other planets.
  - n.* a living organism, especially one that has a distinct shape, structure, or behavior
  
6. The \_\_\_\_\_ is about 13.8 billion years old.
  - n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
  
7. The firm has grown into a large \_\_\_\_\_ manufacturing.
  - adj.* relating to or connected with chemistry;

ANSWERS: 1. biohazard, 2. Darwinism, 3. obvious, 4. suddenly, 5. life-form, 6. universe, 7. chemical

8. I want to \_\_\_\_\_ a toast in honor of our longstanding relationship.  
*v.* to make a proposal, declare a plan for something
9. This company was granted a patent for its \_\_\_\_\_ resin manufacturing process.  
*n.* compounds and functional groups that contain a basic nitrogen atom with a lone pair (NH<sub>2</sub>) that combine to make protein
10. She gazed out the window, deep in thought, as if waiting for her \_\_\_\_\_ to strike.  
*n.* a source of inspiration, particularly for creative endeavors such as writing or art; a mythical spirit thought to inspire poets and artists
11. He imposed a \_\_\_\_\_ on the project.  
*n.* a series of events arranged in chronological order and displayed along a line, usually drawn left to right or top to bottom
12. There is nothing more valuable than \_\_\_\_\_ and freedom.  
*n.* freedom from another's or others' control or influence
13. He \_\_\_\_\_ jumped out of his chair when he heard the news.  
*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
14. Their love of discovery and exploration often \_\_\_\_\_ the adventurous spirit of the explorer.  
*v.* to describe the distinctive nature or features of someone or something; to be a distinguishing feature of
15. The global financial crisis acted as a \_\_\_\_\_ to unite the country.  
*n.* a person or thing that causes an important event to happen or changes the current situation rapidly; (chemistry) a substance that initiates or accelerates a chemical reaction without being changed itself

ANSWERS: 8. propose, 9. amino, 10. muse, 11. timeline, 12. independence, 13. literally, 14. characterizes, 15. catalyst

16. \_\_\_\_\_ DNA is used to trace human lineage and migration footprints.  
*n.* (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
17. He is very popular at school because he can \_\_\_\_\_ all the teachers' accents.  
*v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
18. 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
19. This factory employs a \_\_\_\_\_ manufacturing system.  
*adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
20. The company specializes in both hardware and \_\_\_\_\_.  
*n.* a set of computer programs and associated documentation and data for doing particular computational jobs
21. The train has to \_\_\_\_\_ rigorous safety checks.  
*v.* to go through something unpleasant or that involves a change
22. He found \_\_\_\_\_ in the works of his favorite authors.  
*n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

ANSWERS: 16. Mitochondria, 17. mimic, 18. aggregate, 19. cellular, 20. software, 21. undergo, 22. inspiration



23. During colonial eras, new migratory patterns \_\_\_\_\_.
- v.* to move out of or away from something and become visible
24. Natural selection is an essential \_\_\_\_\_ in Darwin's theory of evolution.
- n.* a fundamental or essential part of something
25. The \_\_\_\_\_ lost his position in the end due to the scandal.
- n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
26. The software can \_\_\_\_\_ and decode encrypted messages.
- v.* to convert information into a code or format suitable for storage or transmission
27. When the first molecule in the \_\_\_\_\_ receives a signal, it activates other molecules.
- n.* a track that constitutes or serves as a path; an approach or a way of doing something
28. His \_\_\_\_\_ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
29. My father's death \_\_\_\_\_ my life completely.
- v.* to change in outward structure or looks;
30. The city is known for its impressive \_\_\_\_\_ and beautiful old buildings.
- n.* the art and science of designing and constructing buildings
31. Greed is the primary \_\_\_\_\_ in the making of criminals.
- n.* one of the things used to make something, especially one of the foods used to make a particular dish

ANSWERS: 23. emerged, 24. element, 25. politician, 26. encode, 27. pathway, 28. experiments, 29. transformed, 30. architecture, 31. ingredient

32. Every human is responsible for taking care of the Earth's \_\_\_\_\_.
- n. the natural world such as air, water, and land in which humans, animals, and plants live
33. The magician's illusions always managed to \_\_\_\_\_ the audience.
- v. to capture or hold someone's attention or interest completely; to captivate or fascinate
34. He \_\_\_\_\_ back in time to the soccer game.
- v. to move along very quickly; (noun) the act of rising upward into the air
35. They \_\_\_\_\_ customers with a premium for loyal patronage.
- v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
36. I decided to seek counseling on the advice of my \_\_\_\_\_.
- n. one of a group of a coworker, especially in a profession or a business
37. You \_\_\_\_\_ a bill in the change machine, and the coins pop out.
- v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
38. The magic tricks \_\_\_\_\_ the children.
- v. to attract and hold the attention of someone deeply and irresistibly
39. Consult your doctor if the symptoms \_\_\_\_\_.
- v. to continue to do and refuse to stop something despite difficulties or opposition, even if it appears unreasonable

ANSWERS: 32. environment, 33. enthrall, 34. zoomed, 35. encouraged, 36. colleague, 37. stick, 38. fascinated, 39. persist

40. The doctor diagnosed him with a rare \_\_\_\_\_ that had no known cure.  
*n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
41. Lost mobile phones lead to another potential \_\_\_\_\_ regarding privacy.  
*n.* something dangerous and likely to cause damage
42. How many \_\_\_\_\_ does the average lion have?  
*n.* descendant; any immature animal or plant
43. Aging societies tend to require huge costs for \_\_\_\_\_ maintenance.  
*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
44. Better sleep leads to increased \_\_\_\_\_.  
*n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
45. During pregnancy, the stomach generates less \_\_\_\_\_ than usual.  
*n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
46. She struggled to \_\_\_\_\_ the children's reading habits.  
*v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
47. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.  
*n.* a workplace for the conduct of scientific research; a laboratory

ANSWERS: 40. disease, 41. hazard, 42. offspring, 43. infrastructure, 44. metabolism, 45. acid, 46. sustain, 47. lab

48. The man \_\_\_\_\_ before opening the door.

- v.* to take a short break from talking or doing something before continuing

49. The coach explained a strategy to \_\_\_\_\_ the opponent's schemes to the players.

- v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

50. 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

51. The experiment was \_\_\_\_\_ several times to ensure accuracy.

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

52. The hiker found a calm spot in the \_\_\_\_ of the mountain to set up camp.

- n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind

53. That adventurer traveled in \_\_\_\_\_ of buried treasure.

- n.* a long or challenging search for something

54. The well-crafted plot and interesting characters made the book very \_\_\_\_\_ to readers

- adj.* attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something

ANSWERS: 48. paused, 49. frustrate, 50. transcribe, 51. replicated, 52. lee, 53. quest, 54. appealing

55. Connecting batteries in series increase the \_\_\_\_\_ of the circuit.  
*n.* the difference in the force of an electric current between two points
56. This process improves the strength of the metal by controlling the \_\_\_\_\_ lattice structure of the metal.  
*adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
57. He could not \_\_\_\_\_ against temptation.  
*v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
58. Her beauty \_\_\_\_\_ me completely.  
*v.* to make someone a slave; to deprive someone of their freedom of choice or action
59. Loud noises might harm the fragile ear \_\_\_\_\_.  
*n.* a soft, thin layer that forms animal or vegetable tissue
60. \_\_\_\_\_ substances include rocks and minerals.  
*adj.* being or consisting of nonliving stuff; chemical compounds that contain no or only trace amounts of carbon
61. I am \_\_\_\_\_ opposed to his idea because of morality.  
*adv.* without restriction or limitation; completely or utterly
62. The European Central Bank is Europe's \_\_\_\_\_ of the Federal Reserve.  
*n.* having the same value, quality, meaning, purpose, etc.

ANSWERS: 55. voltage, 56. nanoscale, 57. struggle, 58. enslaved, 59. membrane, 60. Inorganic, 61. absolutely, 62. equivalent

63. A defective \_\_\_\_\_ is responsible for the disease.

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

64. The findings of the experiment were both \_\_\_\_\_ and unexpected.

- adj.* causing a lot of interest or excitement

65. The \_\_\_\_\_ of the candle flickered in the darkness of the room.

- n.* a bright, visible light and heat source caused by combustion; a strong, intense feeling typically associated with passion, aggression, or anger

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

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

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

- adj.* extremely interesting

68. Eyeless fish \_\_\_\_\_ in dark caves.

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

69. \_\_\_\_\_ weight is the sum of all the atoms.

- adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

70. He is drawing a \_\_\_\_\_ illustrating how the equipment operates.

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

ANSWERS: 63. gene, 64. exciting, 65. flame, 66. microscope, 67. fascinating, 68. evolved, 69. Molecular, 70. diagram

71. The human \_\_\_\_\_ contains approximately three billion chemical base pairs.  
*n.* the complete set or sequence of genes of a human, animal, plant, or other living things
72. Nuclear \_\_\_\_\_ is a process in which atomic nuclei combine to form heavier nuclei.  
*n.* the process of combining two or more things to form a single entity
73. The industrial \_\_\_\_\_ laws were passed with little to no alteration.  
*n.* the way two persons or groups of people feel and act toward one another
74. The fire spread rapidly, engulfing everything in its path in a \_\_\_\_\_ inferno.  
*adj.* intense or scorching heat
75. The recent economic downturn has resulted in \_\_\_\_\_ layoffs.  
*adj.* enormous amount; very heavy and solid
76. The kidney is an \_\_\_\_\_ component of the body.  
*adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
77. He was impressed by the range and \_\_\_\_\_ of the collection.  
*n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
78. The chemist poured the solution from the beaker into the \_\_\_\_\_.  
*n.* a container with a narrow neck and wide, flat body used for holding and carrying liquids

ANSWERS: 71. genome, 72. fusion, 73. relations, 74. burning, 75. massive, 76. organic, 77. diversity, 78. flask

79. Regular exercise is crucial for maintaining one's \_\_\_\_\_.
- n.* the quality or state of being physically fit and healthy; the ability to perform physical tasks and activities with ease and efficiency
80. 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
81. Many people worry that the current real estate market is a \_\_\_\_\_ that could burst soon.
- n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
82. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
83. The freshwater \_\_\_\_\_ was home to many different types of fish and was a popular spot for fishing.
- n.* a small, shallow lake
84. \_\_\_\_\_ diamonds play an essential role as machine tool blades.
- adj.* made by combining chemical substances as opposed to being naturally occurring
85. The restaurant uses large \_\_\_\_\_ to store its food ingredients.
- n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

ANSWERS: 79. fitness, 80. protein, 81. bubble, 82. chemistry, 83. pond, 84. Synthetic, 85. containers



86. Many famous \_\_\_\_\_ are within walking distance.

*n.* the ability to see; anything that is seen

87. Please tell me how to \_\_\_\_\_ this computer.

*v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way

88. These birds can only \_\_\_\_\_ in temperate climates.

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

89. The \_\_\_\_\_ train was packed with commuters during rush hour.

*n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

90. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.

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

91. The doctors said that her recovery was a \_\_\_\_\_.

*n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God

92. 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

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

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

ANSWERS: 86. sights, 87. manipulate, 88. survive, 89. tube, 90. complexity, 91. miracle, 92. selfish, 93. dimensions

94. Can you \_\_\_\_\_ 123321 by eleven?

*v.* to separate or cause to separate into parts or groups

95. He \_\_\_\_\_ the fireworks with a single spark.

*v.* to set on fire; to cause to start burning

96. Global \_\_\_\_\_ is rising in virtually every industry.

*n.* a situation in which someone is attempting to beat or outperform another

97. The speaker mounted the \_\_\_\_\_ and started to speak.

*n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

98. The pilot had to adjust the plane's \_\_\_\_\_ to stay on course.

*n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another

99. There are various hypotheses concerning the \_\_\_\_\_ of life.

*n.* the first existence or beginning of something

100. \_\_\_\_\_ prevalent in hospitals are often resistant to antibiotics.

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

101. The \_\_\_\_\_ object was not capable of movement or feeling.

*adj.* not having life or spirit; not animate

ANSWERS: 94. divide, 95. ignited, 96. competition, 97. platform, 98. bearing, 99. origin, 100. Bacteria, 101. inanimate

102. The art gallery showcased a collection of colorful \_\_\_\_\_ prints by renowned artists.

*n.* a printmaking process that involves creating a design on a flat stone or metal plate, transferring the design to paper using ink, and then printing multiple copies of the design

103. I bought a new tool \_\_\_\_ for my home repair projects.

*n.* a set of tools, supplies, or equipment for a particular purpose

104. He expressed his dissatisfaction in an \_\_\_\_\_ way.

*adj.* happening in addition to the main or intended aim, cause or result, often in a way that is not obvious; not following the shortest or straight way

105. He placed the coins in a \_\_\_\_ to save for a trip.

*n.* a cylindrical container, typically made of glass, metal, or pottery, with a wide mouth and a screwed or sealed lid, used for storing food, liquids, and other materials

106. One of the main \_\_\_\_\_ of the new product is its increased efficiency.

*n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

107. Her response revealed \_\_\_\_\_ idiocy.

*adj.* unbelievable; enormous

108. We must \_\_\_\_\_ a new system to streamline our workflow and increase efficiency.

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

ANSWERS: 102. lithographic, 103. kit, 104. indirect, 105. jar, 106. advantages, 107. incredible, 108. develop

109. The \_\_\_\_\_ qualities of love and kindness are immeasurable.  
*n.* not having physical form or substance; difficult to touch or grasp
110. You must \_\_\_\_\_ with others to obtain this position.  
*v.* to strive to achieve more success than someone or something
111. The \_\_\_\_\_ of a new virus can cause concern for public health.  
*n.* the process or fact of coming into existence or becoming apparent
112. In junior high school, we had to dissect a frog in \_\_\_\_\_ class.  
*n.* the scientific study of life and the natural processes of living things
113. A single \_\_\_\_\_ of water can reflect the entire world upside down.  
*n.* a small drop of liquid
114. The new CEO was appointed to \_\_\_\_\_ their business.  
*v.* to change to a more sufficient or suitable form of organization
115. The new technology added a level of \_\_\_\_\_ to the manufacturing process.  
*n.* the quality or state of having a great deal of worldly experience; the quality or state of being intellectually or culturally refined
116. The restaurant \_\_\_\_\_ a ban on smoking.  
*v.* to change something's direction, order, position, decision, etc., to the opposite one; (adjective) directed or moving toward the rear
117. She was diagnosed with a \_\_\_\_\_ buildup in her lungs.  
*n.* a substance that can flow and is not solid

ANSWERS: 109. intangible, 110. compete, 111. emergence, 112. biology, 113. droplet, 114. reorganize, 115. sophistication, 116. reversed, 117. fluid

118. A \_\_\_\_\_ audience viewed the broadcast.

*adj.* enormous in size, number, amount, or quantity

119. The artist created a \_\_\_\_\_ sculpture of a famous politician for the town square.

*adj.* resembling or appearing similar to something alive or real, often realistically or vividly; convincing or authentic in appearance or behavior

120. One such rapidly growing \_\_\_\_\_ is quantum cryptography.

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

121. The soccer game crowd broke into a \_\_\_\_\_ of "Go, team, go!"

*n.* a simple melody or tune, typically one that is repeated or sung in a monotonous way; (verb) recite with musical intonation

122. The wound on his leg continued to \_\_\_\_\_ blood even after he applied pressure.

*v.* to flow or seep out slowly, often in a thick, viscous manner; to exude or emit slowly and steadily

123. Without bees to \_\_\_\_\_ the flowers, many crops would not exist.

*v.* to transfer pollen from the male part of a flower to the female part, thereby fertilizing the plant and allowing it to produce fruit or seeds; to spread or disseminate an idea or influence to others

124. To advance this discussion, we must \_\_\_\_\_ "success" rigorously.

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

125. The management must \_\_\_\_\_ strategies to increase office security.

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

ANSWERS: 118. vast, 119. lifelike, 120. concept, 121. chant, 122. ooze, 123. pollinate, 124. define, 125. explore

126. We store customer data in cloud \_\_\_\_\_.

- n.* the act or process of putting in and keeping something in a particular place for use in the future; an electronic memory device that can store information

127. His speech \_\_\_\_\_ the passion of the crowd.

- v.* to cause something to start burning again

128. The brain is an incredibly complex organ that controls the body's \_\_\_\_\_.

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

129. We do move forward with those tasks in \_\_\_\_\_ next week.

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

130. He did \_\_\_\_\_ pen-and-ink drawings in just a few days.

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

131. He has a short \_\_\_\_\_.

- n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

132. The accident caused a \_\_\_\_\_ on the highway, causing traffic to come to a standstill.

- n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective

ANSWERS: 126. storage, 127. reignited, 128. function, 129. sequence, 130. complicated, 131. fuse, 132. roadblock

133. His \_\_\_\_\_ attitudes towards immigrants were offensive and ignorant.  
*n.* a person who is aggressively or excessively patriotic and who believes in the superiority of their gender, race, or nationality, often to the detriment or oppression of others
134. The discovery of the \_\_\_\_\_ soup was a crucial step in understanding the origins of life on Earth.  
*adj.* existing from the beginning of time or the start of a particular process; relating to the earliest stage of the universe
135. The lecture was so \_\_\_\_\_ that many people fell asleep.  
*adj.* lacking interest or excitement; tedious or dull
136. A vast \_\_\_\_\_ chandelier glittered brightly above us.  
*n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
137. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.  
*n.* a workplace for doing scientific research or teaching science; a lab
138. My remote \_\_\_\_\_ immigrated to the United States from Ireland in the 1800s.  
*n.* a person from whom one is descended; a forefather
139. My home is easily \_\_\_\_\_ from the shore.  
*adj.* capable of being seen; or open to easy view
140. \_\_\_\_\_ robots that can cooperate with humans have limited motor output for safety.  
*adj.* having the capacity for thought and reason, especially to a high degree

ANSWERS: 133. chauvinistic, 134. primordial, 135. boring, 136. crystal, 137. laboratory, 138. ancestor, 139. visible, 140. Intelligent

141. The golfer recorded an \_\_\_\_\_ distance.

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

142. The software could \_\_\_\_\_ the encrypted data and reveal the hidden information.

*v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand

143. There was a chemical \_\_\_\_\_ of the lime with the groundwater.

*n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

144. The \_\_\_\_\_ in her heart was filled with the love of her family.

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

145. My mother's illness had a \_\_\_\_\_ impact on us all.

*adj.* extremely great; sensed or experienced very strongly; displaying a high level of knowledge or comprehension

146. I regretted making an \_\_\_\_\_ mistake in my final exam.

*adj.* causing fear, dread, or terror; very bad or unpleasant

147. We should \_\_\_\_\_ mildly violent video games from a child's development perspective.

*v.* to officially or legally forbid or refuse to allow something

148. He is \_\_\_\_\_ and can break down complex problems into manageable parts.

*adj.* relating to or using analysis (= the process of breaking down a complex system or concept into smaller, simpler parts to understand it better), or able to analyze

ANSWERS: 141. amazing, 142. decode, 143. reaction, 144. void, 145. profound, 146. awful, 147. ban, 148. analytical



149. I decided to \_\_\_\_ for premature retirement.

- v. to make a choice from a range of possibilities

150. They study the \_\_\_\_\_ of the universe.

- n. a gradual process of transformation of living things

151. You can \_\_\_\_\_ the font color by clicking the Color tab.

- v. to explain or state something clearly and exactly

152. The rabbit \_\_\_\_\_ over the fence.

- v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

153. He gained debt \_\_\_\_\_.

- n. the act of stopping feeling angry or resentful towards someone for a mistake or offense with compassion

154. Kant's thoughts provided the foundational ideas for treating \_\_\_\_\_ as a discipline.

- n. the branch of philosophy that deals with the fundamental nature and the first principles of reality, including abstract concepts such as being, knowing, identity, time, and space

155. Mercury is the closest \_\_\_\_\_ to the sun.

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

156. The seeds \_\_\_\_\_ quickly in the warm soil.

- v. to begin to grow or develop, typically as a seed sprouts

ANSWERS: 149. opt, 150. evolution, 151. specify, 152. hopped, 153. forgiveness, 154. metaphysics, 155. planet, 156. germinated

157. The new amusement park ride was \_\_\_\_\_ with twists, turns, and drops that left riders screaming with excitement.  
*adj.* extremely good; excellent
158. Their company has been in business for a short time but has \_\_\_\_\_ goals.  
*adj.* having a great desire to attain achievement, power, or wealth
159. The \_\_\_\_\_ approved by Congress was perfunctorily implemented.  
*n.* an official rule made and maintained by a government or some other authority; the act of controlling or directing something according to a rule
160. We have a mutually \_\_\_\_\_ connection with them.  
*adj.* involving two varieties of animal or plant, each of which supplies the conditions for the other to exist
161. Hydrogen and oxygen \_\_\_\_\_ to form water.  
*v.* to join or merge to form a single thing or group
162. The \_\_\_\_\_ intelligence system has revolutionized the way we live and work.  
*adj.* not natural and made by human beings; not real but produced to resemble something
163. Her sudden \_\_\_\_\_ of her mistake caused her great regret.  
*n.* the act or process of understanding or becoming aware of something; the act of achieving or completing something that was planned or desired; the act of making something real or tangible
164. The shape of the DNA \_\_\_\_\_ is a double helix.  
*n.* a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 157. fantastic, 158. ambitious, 159. regulation, 160. symbiotic, 161. combine, 162. artificial, 163. realization, 164. molecule

165. It seems \_\_\_\_\_ that he has forgotten our scheduled meeting.

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

166. The process was carried out at \_\_\_\_\_ cost.

*adj.* tiny in amount; the least possible

167. I can't see any \_\_\_\_\_ between these two concepts.

*n.* a difference or contrast between similar things or people

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

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

169. Trees absorb \_\_\_\_\_ dioxide and give off oxygen.

*n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

170. He evaluated his chances for \_\_\_\_\_ rather pessimistically.

*n.* the state of continuing to exist or live, frequently in the face of difficulty or danger

171. It is \_\_\_\_\_ that we will find a solution to this problem overnight.

*adj.* not likely to happen or be true; unlikely; having a low probability or chance of occurring

ANSWERS: 165. probable, 166. minimal, 167. distinction, 168. physics, 169. carbon, 170. survival, 171. improbable