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## Vocabulary Builder Reference from...

Michelle Borkin: Can astronomers help doctors? |

TED Talk

[https://www.ted.com/talks/michelle\\_borkin\\_can\\_astronomers\\_help\\_doctors](https://www.ted.com/talks/michelle_borkin_can_astronomers_help_doctors)

### All Words

#### IMPORTANT

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## Session 1: Word List

### unravel

*v.* undo twisted, knitted, or woven threads by separating it  
*synonym* : separate, unknot, ravel

(1) **unravel** a knit, (2) **unravel** a plot

Detectives are still attempting to **unravel** the mystery of his death.

### mystery

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

*synonym* : enigma, puzzle, secret

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

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

### 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.

## interdisciplinary

*adj.* involving or combining several academic disciplines or fields of study

*synonym*: multidisciplinary, transdisciplinary

(1) **interdisciplinary** research, (2) an **interdisciplinary** conference

The **interdisciplinary** approach to solving the problem involved experts from multiple fields working together.

## supernova

*n.* a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

*synonym*: explosion, detonation, blast

(1) extragalactic **supernova**, (2) **supernova** remnant

The **supernova** explosion created a bright new star in the night sky.

## remnant

*n.* a small remaining quantity of something, considered separately from what has been lost or destroyed; a surviving piece or fragment of something

*synonym*: remainder, leftover, residue

(1) **remnant** of the past, (2) **remnants** of fabric

The only **remnant** left of the ancient civilization was the crumbling ruins of their temples.

## galaxy

*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

*synonym*: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

## astronomy

*n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

*synonym*: astrophysics, stargazing, cosmology

(1) **astronomy** science, (2) a branch of **astronomy**

He had a deep passion for extragalactic **astronomy** and spent hours observing the night sky.

## 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**.

## magnificent

*adj.* extremely beautiful and impressive; grand or noble in thought or deed

*synonym*: splendid, brilliant, exquisite

(1) a **magnificent** plan, (2) a **magnificent** mountain

The **magnificent** scene of the glacier is awe-inspiring.

## structure

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

*synonym*: construction, architecture, establishment

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

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

## nebula

*n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source

*synonym*: cloud, mist, stardust

(1) a spiral **nebula**, (2) emission **nebula**

The galactic **nebula** was a beautiful sight through the telescope, with its vibrant colors and swirling clouds.

## render

*v.* to bring someone or something into a particular state; to provide something such as service, help, etc.

*synonym*: deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void

The jury must **render** a decision on this complex case.

## rough

*adj.* not quite exact or correct; having or caused by an irregular surface

*synonym*: inelegant, coarse, barbarian

(1) **rough** and tough, (2) **rough** estimation

The vehicle bounced along the **rough** mountain road.

## draft

*n.* a preliminary version of something that is not yet in its final form

*synonym*: blueprint, outline, rough drawing

(1) a working **draft**, (2) write the first **draft**

During debates in the legislature, the **draft** of the law caused a lot of controversies.

## novel

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

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

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

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

## discovery

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

*synonym*: finding, uncovering, detection

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

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

## explode

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

*synonym*: detonate, blast, rupture

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

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

## shell

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

*synonym*: ammunition, armor, cover

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

The outermost electron **shell** determines the chemical

properties of an atom.

## 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**.

## 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.

## slice

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

*synonym*: piece, portion, slit

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

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

## 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.

## patient

*n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

*synonym*: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss  
The doctor carefully examined the **patient's** medical history.

## brain

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

*synonym*: intellect, mind, encephalon

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

## scan

*v.* to examine something hastily, with the eyes or with a machine, to get information

*synonym*: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF  
She stood on the podium and **scanned** an audience.

## surgery

*n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

*synonym*: operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**  
He had undergone heart **surgery** years before.

## anatomy

*n.* the scientific study that deals with the physical structure of humans, animals, or plants

(1) animal **anatomy**, (2) **anatomy** of a country's collapse  
The professor explained the **anatomy** of the nervous system.

## lurk

*v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal

*synonym*: hide, creep, stalk

(1) **lurked** behind the words, (2) **lurk** in the darkness  
In the city, the risk of traffic accidents **lurks** at every corner.

## medical

*adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

*synonym* : health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

## astronomer

*n.* a physicist who studies astronomy

*synonym* : stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

## biomedical

*adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

*synonym* : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

**Biomedical** engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

## astronomical

*adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

*synonym* : huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

## angiography

*n.* a medical imaging technique that involves the visualization and examination of blood vessels, typically using the injection of a contrast agent and X-ray imaging to highlight and study the circulatory system

*synonym* : arteriography, vascular imaging

(1) **angiography** procedure, (2) digital **angiography**

After experiencing chest pains, he underwent coronary **angiography** to check for blockages in his heart's arteries.

## coronary

*adj.* of or relating to the heart, especially the arteries that supply blood to the heart muscle; (noun) medical

conditions related to these arteries, such as coronary artery disease

*synonym* : cardiac, heart-related, heart disease

(1) **coronary** artery bypass grafting, (2) **coronary** disease

The patient underwent **coronary** angiography to visualize the blood flow in his heart.

## artery

*n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

*synonym* : blood vessel, channel, roadway

(1) **artery** blockage, (2) risk of coronary **artery** disease

Continuous consumption of fatty foods leads to the hardening of the **artery**.

## butt

*v.* to strike or push something with the flat end of your hip or buttocks; to hit or knock forcefully; (noun) the remaining end of a smoked cigarette

*synonym* : hit, punch, strike

(1) **butt** into several people, (2) cigarette **butt**

The goats often **butt** heads when they are fighting for dominance.

## 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.

## focal

*adj.* relating to an important or central point or area; sharp or precise in focus or detail

*synonym* : central, main, primary

(1) **focal** neurological deficit, (2) **focal** length

The photographer adjusted the camera to focus on the image's **focal** point.



## microscopy

*n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs

*synonym*: microanalysis, magnification

(1) clinical **microscopy**, (2) electron **microscopy**

The scientist used a **microscopy** technique to study the cells at a microscopic level.

## cornea

*n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina

*synonym*: eye membrane, eye lens

(1) **cornea** transplant, (2) **cornea** damage

A scratched **cornea** can be very painful and may cause blurry vision.

## telescope

*n.* a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

## tumor

*n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

*synonym*: neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

## remarkable

*adj.* worthy of attention because unusual or special

*synonym*: outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

## acquire

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

*synonym*: attain, earn, catch

(1) **acquire** knowledge, (2) **acquire** a new company  
Children **acquire** language at a fantastic rate.

## progression

*n.* the act or process of changing to the next stage or phase or moving forward

*synonym*: advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease  
The company has made great strides in its **progression** toward sustainability.

## cortex

*n.* the outermost layer of an organ, especially the brain

(1) **cortex** cells, (2) visual **cortex** neuron

The cerebral **cortex** consists of six layers.

## operate

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

*synonym*: work, use, employ

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

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

## steppe

*n.* a vast, wide, and usually treeless plain, typically found in semi-arid or arid regions, characterized by fertile soil and grassy vegetation, often used for grazing livestock; an expansive and open grassland ecosystem found in Eurasia and North America

*synonym*: prairie, savannah, grassland

(1) **steppe** climate, (2) barren **steppe**

The nomadic tribes set up camp on the vast **steppe**.

## cutting-edge

*adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

*synonym*: state-of-the-art, innovative, advanced

(1) **cutting-edge** molecular biology, (2) **cutting-edge** design

The **cutting-edge** technology was revolutionary in its field.

## velocity

*n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

*synonym* : speed, rapidity, swiftness

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

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

## momentum

*n.* the force or power that is gained by a moving object; a strength or impetus gained through a process of development or activity

*synonym* : impetus, drive, thrust

(1) angular **momentum**, (2) **momentum** toward democracy

The team gained **momentum** after scoring their first goal.

## recognize

*v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

*synonym* : acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

## eagle

*n.* a large predatory bird with a hooked beak and broad wings, known for its keen eyesight and powerful flight; a symbol of strength and freedom in many cultures

*synonym* : bird of prey, raptor

(1) **eagle** feathers, (2) **eagle** eyes

The bald **eagle** symbolizes freedom and strength in the United States.

## fade

*v.* to vanish; to fade away; to lose color; to lose freshness

*synonym* : languish, wither

(1) **fade** away almost completely, (2) **fade** in importance

My memory will **fade**, but my heart will live on.

## background

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

*synonym* : ground, experience, backdrop

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

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

## radiology

*n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

*synonym*: medical imaging, radiography, radioscopy

(1) interventional **radiology**, (2) diagnostic **radiology**

The patient underwent a **radiology** scan to diagnose their medical condition.

## 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.

## pound

*n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

(1) three-fourths of a **pound**, (2) thousands of **pounds**

The car's front bumper cost fifteen hundred **pounds**.

## amaze

*v.* to fill with wonder, surprise, or admiration

*synonym*: astound, surprise, stagger

(1) **amaze** and entertain visitors, (2) **amaze** everyone

The magician's tricks **amazed** the audience.

## toss

*v.* to throw something carelessly with a light motion

*synonym*: throw, sway

(1) **toss** a coin, (2) **toss** the bottle into a trash can

It would be best if you **tossed** out all those old magazines.

## pillar

*n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something

*synonym* : column, post, support

(1) **pillar** of society, (2) **pillar** decoration

The **pillar** of smoke rising from the building signaled a massive fire.

## conventional

*adj.* based on or following traditional rules, standards, customs, etc.

*synonym* : ancestral, customary, established

(1) a **conventional** style, (2) get a **conventional** loan

She is very **conventional** in her thoughts.

## visualize

*v.* to form a mental image or concept of something; to make something visible

*synonym* : imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

## shock

*n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

*synonym* : amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

## blast

*n.* explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise

*synonym* : blow, burst, explosion

(1) a **blast** of wind, (2) an icy **blast**

The **blast** shattered the laboratory equipment.

## collaborate

*v.* to work with someone else to produce or achieve something

*synonym* : cooperate, unite, get together

(1) **collaborate** with the police, (2) **collaborate** on a press release

She agreed to **collaborate** with him in creating new artwork.

## anticipate

v. to expect or predict that something will happen; to tell in advance

*synonym*: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

## revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

*synonym*: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

## diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

*synonym*: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans

This device is used to **diagnose** brain cancer and other tumors.

## organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

*synonym*: function, structure

(1) **organ** bleeding, (2) damage to internal **organs**

These infections have the potential to impact practically every **organ** system.

## data-mining

n. the process of extracting valuable insights or knowledge from large, complex sets of data by using analytical techniques and algorithms to identify patterns, relationships, or trends

*synonym*: data analysis, scraping, text mining

(1) **data-mining** software, (2) **data-mining** techniques  
The company's success was largely due to its effective use of **data-mining** to identify customer trends and preferences.

## collaboration

*n.* the act or situation of working together to create or produce something

*synonym*: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

## represent

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

*synonym*: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

## 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.

## invasive

*adj.* spreading very quickly, and often aggressively, and difficult to stop

*synonym*: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

## wrap

*v.* to cover or enclose something entirely with paper, cloth, or other material

*synonym* : surround, cover, bandage

(1) **wrap** a fish in foil, (2) **wrap** up a meeting

**Wrap** the bandage tightly around the injured arm.

## killing

*n.* the act of causing death; a sudden and intense force or effect that causes significant damage or destruction; a situation where someone is making a substantial amount of money or experiencing significant financial success

*synonym* : slaughter, homicide, assassination

(1) **killing** spree, (2) profit- **killing**

The **killing** of unarmed civilians is considered a war crime.

## simulate

*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

*synonym* : pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

## physics

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

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

He studied the **physics** of radiation.

## assignment

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

*synonym* : task, duty, designation

(1) finish the **assignment**, (2) **assignment** of interest

My **assignment** was overwhelming and complicated, but it was also exciting.

## optimal

*adj.* the best; most likely to be successful or advantageous

*synonym* : optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual



growth

Wild animals need to go forward with the **optimal** action to survive.

## efficient

*adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

*synonym*: productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

## collapse

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

*synonym*: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

## quizzical

*adj.* expressing puzzlement, questioning, or curiosity through a facial expression or demeanor; having an appearance or manner that suggests confusion or mild skepticism

*synonym*: puzzled, curious, questioning

(1) give a **quizzical** look, (2) **quizzical** smile

The doctor gave a **quizzical** expression after seeing the patient's unusual symptoms.

## inspire

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

*synonym*: boost, encourage, enlighten

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

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

## representation

*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

*synonym* : delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

## 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.

## bioinformatics

*n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

*synonym* : computational biology, genomics

(1) **bioinformatics** research, (2) **bioinformatics** tools

**Bioinformatics** algorithms are essential for identifying and analyzing patterns in biological data.

## 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.

## communal

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

*synonym* : collaborative, combined, collective

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

**Communal** elections were held in several European

countries.

## 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.

## expression

*n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood

*synonym* : statement, utterance, remark

(1) artistic **expression**, (2) **expression** of interest

His facial **expression** showed a mix of surprise and confusion.

## evolutionary

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

*synonym* : developmental, mutative, transformative

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

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

## 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.

## 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.

## relate

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

*synonym* : connect, link, associate

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

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

## specie

*n.* coins or notes in a currency, as distinct from paper money; a chemical substance or group made up of identical molecules

*synonym* : coinage, mintage

(1) **specie** reserve, (2) ground-state **specie**

The store only accepts payment in cash, no credit or debit cards, only **specie**.

## straight

*adj.* extending or moving in one direction without bending or curving; having no deviations

*synonym* : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

## rainbow

*n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain

*synonym* : spectrum, iridescence, prism

(1) marine **rainbow**, (2) **rainbow** after a storm

She was mesmerized by the **rainbow's** colors.

## sin

*n.* the offense against a religious or moral law or against God

*synonym* : misdeed, guilt, wrong

(1) forgive a **sin**, (2) **sin** of omission

Some overzealous environmentalists claim celebrities are committing carbon dioxide **sins**.

## physicist

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

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

Einstein was an outstanding and famous **physicist** of the 20th century.

## guilty

*adj.* feeling responsible for or having done something wrong or criminal

*synonym*: culpable, blameworthy, at fault

(1) feel a bit **guilty**, (2) **guilty** verdict

After much contemplation, the suspect decided to plead **guilty** to the theft charge.

## visual

*adj.* relating to seeing or sight

*synonym*: optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

## variation

*n.* the act or state of changing; a difference or change in the way something is done, made or said

*synonym*: fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

## contrast

*v.* to put in opposition to show or emphasize differences

*synonym*: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things

It's intriguing to compare and **contrast** the two authors.

## highlight

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

*synonym*: feature, emphasize, stress

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

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

## importance

*n.* the quality of being important and worthy of note  
*synonym* : significance, primacy, matter

(1) a man of **importance**, (2) high **importance**

I stopped by the branch though I have no business of **importance**.

## medicinal

*adj.* of or relating to the treatment or cure of disease  
*synonym* : curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

## serendipity

*n.* the occurrence and development of events by chance in a happy or beneficial way; a fortunate accident or discovery

*synonym* : luck, chance, fortune

(1) **serendipity** moment, (2) **serendipity** discovery

The discovery of penicillin was a result of **serendipity**.

## specialize

*v.* to become an expert in a specific career field, study, or business

*synonym* : narrow down, particularize

(1) **specialize** in child care, (2) **specialize** in market research

The restaurant has chefs who **specialize** in beef.

## recruit

*v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.

*synonym* : raise, enroll, enlist

(1) **recruit** a good worker, (2) **recruit** a new hire

The colonial government **recruited** militia support when civil war broke out.

## adventurous

*adj.* willing to take risks and try new or difficult things  
*synonym* : daring, risk-taking, bold

(1) lead an **adventurous** life, (2) **adventurous** pioneers

He has an **adventurous** spirit and is unafraid of risks.

## open-minded

*adj.* willing to listen to or consider new or different ideas

*synonym* : receptive, impartial, approachable

(1) an **open-minded** person, (2) adopt an **open-minded** attitude

Both parties were pleased with the **open-minded** discussion.

## cardiologist

*n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system

*synonym* : heart doctor, heart specialist, cardiac specialist

(1) **cardiologist** appointment, (2) skilled **cardiologist**

My grandfather is seeing a **cardiologist** to monitor his heart condition.

## 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.

## computation

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

*synonym* : calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

## enlighten

*v.* to give someone greater knowledge or understanding about a particular subject or situation, often in a spiritual or moral sense

*synonym* : inform, educate, illuminate

(1) **enlighten** legions of people, (2) **enlighten** other countries

The teacher sought to **enlighten** her students by introducing them to new ideas and perspectives.

## domain

*n.* a specific sphere of influence or control; a specific field of knowledge or expertise

*synonym*: territory, realm, sphere

(1) **domain** of use, (2) a dependent **domain**

The company's **domain** in the market was expanding to new territories.

## med

*adj.* (short for medical) relating to the field of medicine, which is concerned with the diagnosis, treatment, and prevention of diseases and disorders; (short for medication) a substance or drug that is used to treat a medical condition or alleviate symptoms

*synonym*: medium, moderate, average

(1) **med** student, (2) **med** school

I took a **med** dose of pain reliever to ease my headache.

## institute

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

*synonym*: academy, university, college

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

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

## continent

*n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

*synonym*: landmass, (adjective) chaste, (adjective) pure

(1) the inland of a **continent**, (2) **continent** urinary diversion

Flight across the **continent** was a daring adventure in its day.

## urge

*v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist

*synonym*: push for, advise, (noun) impulse

(1) **urge** a total ban, (2) a sexual **urge**

The lobbyist **urged** Congress not to approve the measure.



## attend

v. to be present at an event, to go to a place

*synonym*: go, be present, accompany

(1) **attend** a meeting, (2) **attend** service

We must **attend** to this matter.

## confer

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

*synonym*: consult, meet, discuss

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

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

## journal

n. a newspaper or magazine specialized in a specific topic or profession

*synonym*: periodical, diary, bulletin

(1) scientific **journal**, (2) **journal** articles

The physician is reading the **journals** related to medicine

## discipline

n. the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence

*synonym*: training, restraint, field

(1) break **discipline**, (2) rigid **discipline**

He quickly learned the military **discipline**.

## Session 2: Spelling

1. si\_\_\_\_te climate change  
*v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
2. a st\_\_\_\_ht line  
*adj.* extending or moving in one direction without bending or curving; having no deviations
3. op\_\_\_\_e 24 hours a day  
*v.* to work in a particular way; to supervise something
4. cut\_\_\_\_dge molecular biology  
*adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity
5. professor of ch\_\_\_\_ry  
*n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
6. f\_\_e in importance  
*v.* to vanish; to fade away; to lose color; to lose freshness
7. rigid dis\_\_\_\_ne  
*n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
8. ass\_\_\_\_nt of interest  
*n.* a duty or task given to someone, usually as part of their job or studies

ANSWERS: 1. simulate, 2. straight, 3. operate, 4. cutting-edge, 5. chemistry, 6. fade, 7. discipline, 8. assignment

- |                                   |    |  |
|-----------------------------------|----|--|
| 9. t__s a coin                    | v. | to throw something carelessly with a light motion  |
| 10. s__n the face of the man      | v. | to examine something hastily, with the eyes or with a machine, to get information  |
| 11. 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   |
| 12. col_____ion between companies | n. | the act or situation of working together to create or produce something  |
| 13. break dis_____ne              | n. | the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence  |
| 14. hi_____ht a string in red     | v. | to make something prominent, mainly so that people give it more attention  |
| 15. theoretical ph_____st         | n. | a scientist who specializes in the field of physics  |
| 16. so_____re architect           | n. | a set of computer programs and associated documentation and data for doing particular computational jobs   |
| 17. tu__r growth                  | n. | a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way   |
| 18. bio_____ics research          | n. | the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas |

ANSWERS: 9. toss, 10. scan, 11. universe, 12. collaboration, 13. discipline, 14. highlight, 15. physicist, 16. software, 17. tumor, 18. bioinformatics

19. basic br\_\_n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
20. 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
21. energy-ef\_\_\_\_\_nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
22. feel a bit gu\_\_\_y *adj.* feeling responsible for or having done something wrong or criminal
23. a first-aid k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
24. co\_\_\_\_\_ry disease *adj.* of or relating to the heart, especially the arteries that supply blood to the heart muscle; (noun) medical conditions related to these arteries, such as coronary artery disease
25. car\_\_\_\_\_ist appointment *n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system
26. the great di\_\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
27. rem\_\_\_\_\_le achievement *adj.* worthy of attention because unusual or special

ANSWERS: 19. brain, 20. universe, 21. efficient, 22. guilty, 23. kit, 24. coronary, 25. cardiologist, 26. discovery, 27. remarkable

28. re\_\_\_\_\_nt by a diagram      *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
29. fo\_\_l neurological deficit      *adj.* relating to an important or central point or area; sharp or precise in focus or detail
30. st\_\_\_e climate      *n.* a vast, wide, and usually treeless plain, typically found in semi-arid or arid regions, characterized by fertile soil and grassy vegetation, often used for grazing livestock; an expansive and open grassland ecosystem found in Eurasia and North America
31. a sexual u\_\_e      *v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist
32. hi\_\_\_\_\_ht an important difference      *v.* to make something prominent, mainly so that people give it more attention
33. an egg sh\_\_l      *n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
34. the inland of a co\_\_\_\_\_nt      *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
35. the st\_\_\_\_\_re of a machine      *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
36. ex\_\_\_\_\_e in popularity      *v.* to burst or break open violently and noisily; to cause something to burst or break open

ANSWERS: 28. represent, 29. focal, 30. steppe, 31. urge, 32. highlight, 33. shell, 34. continent, 35. structure, 36. explode

37. re\_\_\_e a message      *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
38. ef\_\_\_\_\_nt operation      *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
39. ser\_\_\_\_\_ty discovery      *n.* the occurrence and development of events by chance in a happy or beneficial way; a fortunate accident or discovery
40. pro\_\_\_\_\_on of civilization      *n.* the act or process of changing to the next stage or phase or moving forward
41. rev\_\_\_\_\_ize the technology      *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
42. cell and molecular bi\_\_\_\_\_y      *n.* the scientific study of life and the natural processes of living things
43. high imp\_\_\_\_\_ce      *n.* the quality of being important and worthy of note
44. re\_\_\_e a story      *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
45. a bl\_\_t of wind      *n.* explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise

ANSWERS: 37. relate, 38. efficient, 39. serendipity, 40. progression, 41. revolutionize, 42. biology, 43. importance, 44. relate, 45. blast

46. laws of ph\_\_\_\_s *n.* the science of matter and energy and their interactions
47. an int\_\_\_\_\_ary conference *adj.* involving or combining several academic disciplines or fields of study
48. ser\_\_\_\_\_ty moment *n.* the occurrence and development of events by chance in a happy or beneficial way; a fortunate accident or discovery
49. marine ra\_\_\_\_\_w *n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain
50. write the first dr\_\_t *n.* a preliminary version of something that is not yet in its final form
51. cut\_\_\_\_\_dge design *adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity
52. the ch\_\_\_\_\_ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
53. electron mic\_\_\_\_\_py *n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
54. three-fourths of a po\_\_d *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

ANSWERS: 46. physics, 47. interdisciplinary, 48. serendipity, 49. rainbow, 50. draft, 51. cutting-edge, 52. chemistry, 53. microscopy, 54. pound

55. sl\_\_e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
56. co\_\_\_r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
57. sp\_\_\_e reserve *n.* coins or notes in a currency, as distinct from paper money; a chemical substance or group made up of identical molecules
58. qu\_\_\_\_\_al smile *adj.* expressing puzzlement, questioning, or curiosity through a facial expression or demeanor; having an appearance or manner that suggests confusion or mild skepticism
59. spe\_\_\_\_\_ze in market research *v.* to become an expert in a specific career field, study, or business
60. pi\_\_\_r of society *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
61. en\_\_\_\_\_en other countries *v.* to give someone greater knowledge or understanding about a particular subject or situation, often in a spiritual or moral sense
62. pi\_\_\_r decoration *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something

ANSWERS: 55. slice, 56. confer, 57. specie, 58. quizzical, 59. specialize, 60. pillar, 61. enlighten, 62. pillar



63. historical no\_\_l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
64. in a di\_\_\_\_m *n.* a simplified illustration of the appearance, structure, or workings of something
65. co\_\_\_\_st two things *v.* to put in opposition to show or emphasize differences
66. copyrighted so\_\_\_\_re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
67. forgive a s\_n *n.* the offense against a religious or moral law or against God
68. dat\_\_\_\_ng software *n.* the process of extracting valuable insights or knowledge from large, complex sets of data by using analytical techniques and algorithms to identify patterns, relationships, or trends
69. evolutionary bi\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
70. re\_\_\_\_r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
71. b\_\_t into several people *v.* to strike or push something with the flat end of your hip or buttocks; to hit or knock forcefully; (noun) the remaining end of a smoked cigarette
72. achieve op\_\_\_\_l health *adj.* the best; most likely to be successful or advantageous

ANSWERS: 63. novel, 64. diagram, 65. contrast, 66. software, 67. sin, 68. data-mining, 69. biology, 70. render, 71. butt, 72. optimal

73. su\_\_\_\_\_va remnant *n.* a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant
74. co\_\_\_\_\_st with a decade ago *v.* to put in opposition to show or emphasize differences
75. col\_\_\_\_\_te on a press release *v.* to work with someone else to produce or achieve something
76. re\_\_\_\_\_t a good worker *v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.
77. a branch of as\_\_\_\_\_my *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
78. the rem\_\_\_\_\_le breadth of knowledge *adj.* worthy of attention because unusual or special
79. co\_\_\_\_\_al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
80. permanent br\_\_n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
81. adopt an ope\_\_\_\_\_ed attitude *adj.* willing to listen to or consider new or different ideas
82. col\_\_\_\_\_ion platform *n.* the act or situation of working together to create or produce something
83. dat\_\_\_\_\_ng techniques *n.* the process of extracting valuable insights or knowledge from large, complex sets of data by using analytical techniques and algorithms to identify patterns, relationships, or trends

ANSWERS: 73. supernova, 74. contrast, 75. collaborate, 76. recruit, 77. astronomy, 78. remarkable, 79. communal, 80. brain, 81. open-minded, 82. collaboration, 83. data-mining

84. adv\_\_\_\_\_us pioneers *adj.* willing to take risks and try new or difficult things
85. ea\_\_e eyes *n.* a large predatory bird with a hooked beak and broad wings, known for its keen eyesight and powerful flight; a symbol of strength and freedom in many cultures
86. gene va\_\_\_\_\_on *n.* the act or state of changing; a difference or change in the way something is done, made or said
87. ro\_\_h estimation *adj.* not quite exact or correct; having or caused by an irregular surface
88. former co\_\_\_\_\_ue *n.* one of a group of a coworker, especially in a profession or a business
89. theory of com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
90. op\_\_\_\_\_l for intellectual growth *adj.* the best; most likely to be successful or advantageous
91. finish the ass\_\_\_\_\_nt *n.* a duty or task given to someone, usually as part of their job or studies
92. co\_\_\_a damage *n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
93. 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

ANSWERS: 84. adventurous, 85. eagle, 86. variation, 87. rough, 88. colleague, 89. computation, 90. optimal, 91. assignment, 92. cornea, 93. disease

94. ea\_\_e feathers *n.* a large predatory bird with a hooked beak and broad wings, known for its keen eyesight and powerful flight; a symbol of strength and freedom in many cultures
95. risk of coronary ar\_\_\_y disease *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
96. si\_\_\_\_\_te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
97. st\_\_\_\_\_ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations
98. co\_\_\_\_\_ry artery bypass grafting *adj.* of or relating to the heart, especially the arteries that supply blood to the heart muscle; (noun) medical conditions related to these arteries, such as coronary artery disease
99. give a qu\_\_\_\_\_al look *adj.* expressing puzzlement, questioning, or curiosity through a facial expression or demeanor; having an appearance or manner that suggests confusion or mild skepticism
100. a mag\_\_\_\_\_nt plan *adj.* extremely beautiful and impressive; grand or noble in thought or deed

ANSWERS: 94. eagle, 95. artery, 96. simulate, 97. straight, 98. coronary, 99. quizzical, 100. magnificent



111. ground-state sp\_\_\_e *n.* coins or notes in a currency, as distinct from paper money; a chemical substance or group made up of identical molecules
112. a sl\_\_\_e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
113. re\_\_\_\_\_ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
114. di\_\_\_\_\_se the problem *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
115. co\_\_\_\_\_al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
116. diagnostic ra\_\_\_\_\_gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
117. s\_n of omission *n.* the offense against a religious or moral law or against God
118. ki\_\_\_\_\_g spree *n.* the act of causing death; a sudden and intense force or effect that causes significant damage or destruction; a situation where someone is making a substantial amount of money or experiencing significant financial success

ANSWERS: 111. specie, 112. slice, 113. recognize, 114. diagnose, 115. communal, 116. radiology, 117. sin, 118. killing

119. va\_\_\_\_\_on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
120. 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
121. lead an adv\_\_\_\_\_us life *adj.* willing to take risks and try new or difficult things
122. angular mo\_\_\_\_\_um *n.* the force or power that is gained by a moving object; a strength or impetus gained through a process of development or activity
123. ang\_\_\_\_\_hy procedure *n.* a medical imaging technique that involves the visualization and examination of blood vessels, typically using the injection of a contrast agent and X-ray imaging to highlight and study the circulatory system
124. the characters that re\_\_\_\_\_nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
125. bio\_\_\_\_\_al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
126. a dependent do\_\_\_\_n *n.* a specific sphere of influence or control; a specific field of knowledge or expertise

ANSWERS: 119. variation, 120. develop, 121. adventurous, 122. momentum, 123. angiography, 124. represent, 125. biomedical, 126. domain

127. an ope\_\_\_\_\_ed person *adj.* willing to listen to or consider new or different ideas
128. interventional ra\_\_\_\_\_gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
129. f\_\_e away almost completely *v.* to vanish; to fade away; to lose color; to lose freshness
130. in\_\_\_\_\_ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
131. clinical mic\_\_\_\_\_py *n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs
132. in\_\_\_\_\_e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
133. bio\_\_\_\_\_ics tools *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas
134. int\_\_\_\_\_ary research *adj.* involving or combining several academic disciplines or fields of study
135. re\_\_\_\_\_t of the past *n.* a small remaining quantity of something, considered separately from what has been lost or destroyed; a surviving piece or fragment of something

ANSWERS: 127. open-minded, 128. radiology, 129. fade, 130. invasive, 131. microscopy, 132. inspire, 133. bioinformatics, 134. interdisciplinary, 135. remnant



136. racial or \_\_\_n *n.* the first existence or beginning of something
137. pa\_\_\_\_\_t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
138. a binocular te\_\_\_\_\_pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
139. a man of imp\_\_\_\_\_ce *n.* the quality of being important and worthy of note
140. am\_\_\_e and entertain visitors *v.* to fill with wonder, surprise, or admiration
141. tu\_\_r at remote sites *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
142. a scientific di\_\_\_\_\_ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
143. un\_\_\_\_\_l a knit *v.* undo twisted, knitted, or woven threads by separating it
144. ac\_\_\_\_\_e knowledge *v.* to buy or obtain something such as an asset, object, knowledge, etc., for oneself
145. rev\_\_\_\_\_ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas

ANSWERS: 136. origin, 137. patient, 138. telescope, 139. importance, 140. amaze, 141. tumor, 142. discovery, 143. unravel, 144. acquire, 145. revolutionize

146. field of vi\_\_\_l arts *adj.* relating to seeing or sight
147. u\_\_e a total ban *v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist
148. m\_d school *adj.* (short for medical) relating to the field of medicine, which is concerned with the diagnosis, treatment, and prevention of diseases and disorders; (short for medication) a substance or drug that is used to treat a medical condition or alleviate symptoms
149. vi\_\_\_\_\_ze data *v.* to form a mental image or concept of something; to make something visible
150. binary rep\_\_\_\_\_ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
151. re\_\_\_\_\_t a new hire *v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.
152. look through a te\_\_\_\_\_pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
153. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
154. 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.

ANSWERS: 146. visual, 147. urge, 148. med, 149. visualize, 150. representation, 151. recruit, 152. telescope, 153. medicinal, 154. gene

155. fo\_\_l length *adj.* relating to an important or central point or area; sharp or precise in focus or detail
156. pa\_\_\_\_\_t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
157. vi\_\_\_l navigation *adj.* relating to seeing or sight
158. 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
159. l\_\_k in the darkness *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
160. co\_\_\_\_\_nt urinary diversion *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
161. w\_\_p up a meeting *v.* to cover or enclose something entirely with paper, cloth, or other material
162. death from sh\_\_k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
163. or\_\_n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
164. mo\_\_\_\_\_um toward democracy *n.* the force or power that is gained by a moving object; a strength or impetus gained through a process of development or activity

ANSWERS: 155. focal, 156. patient, 157. visual, 158. literally, 159. lurk, 160. continent, 161. wrap, 162. shock, 163. organ, 164. momentum

165. un\_\_\_\_\_l a plot *v.* undo twisted, knitted, or woven threads by separating it
166. skilled car\_\_\_\_\_ist *n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system
167. elliptic ga\_\_\_y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
168. cutting-edge bio\_\_\_\_\_al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
169. translate li\_\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
170. research in\_\_\_\_\_tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
171. artistic exp\_\_\_\_\_on *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
172. ant\_\_\_\_\_te a black future *v.* to expect or predict that something will happen; to tell in advance
173. parallel com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 165. unravel, 166. cardiologist, 167. galaxy, 168. biomedical, 169. literally, 170. institute, 171. expression, 172. anticipate, 173. computation

174. vi\_\_\_\_\_ze flying through space      *v.* to form a mental image or concept of something; to make something visible
175. high ve\_\_\_\_\_ty      *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
176. col\_\_\_\_\_te with the police      *v.* to work with someone else to produce or achieve something
177. animal an\_\_\_\_\_y      *n.* the scientific study that deals with the physical structure of humans, animals, or plants
178. in\_\_\_\_\_te a lawsuit      *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
179. profit-ki\_\_\_\_\_g      *n.* the act of causing death; a sudden and intense force or effect that causes significant damage or destruction; a situation where someone is making a substantial amount of money or experiencing significant financial success
180. a working dr\_\_t      *n.* a preliminary version of something that is not yet in its final form
181. ecology and evo\_\_\_\_\_ary biology      *adj.* relating to or denoting how living things develop or change from earlier forms
182. thousands of po\_\_ds      *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces

ANSWERS: 174. visualize, 175. velocity, 176. collaborate, 177. anatomy, 178. institute, 179. killing, 180. draft, 181. evolutionary, 182. pound

183. ast\_\_\_\_\_cal observation      *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
184. initial ve\_\_\_\_\_ty      *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
185. w\_\_p a fish in foil      *v.* to cover or enclose something entirely with paper, cloth, or other material
186. co\_\_\_\_x cells      *n.* the outermost layer of an organ, especially the brain
187. ar\_\_\_\_y blockage      *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
188. do\_\_\_\_n of use      *n.* a specific sphere of influence or control; a specific field of knowledge or expertise
189. cardiac su\_\_\_\_\_y      *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
190. I\_\_ked behind the words      *v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
191. an\_\_\_\_\_y of a country's collapse      *n.* the scientific study that deals with the physical structure of humans, animals, or plants

ANSWERS: 183. astronomical, 184. velocity, 185. wrap, 186. cortex, 187. artery, 188. domain, 189. surgery, 190. lurk, 191. anatomy

192. amateur ast\_\_\_\_\_er *n.* a physicist who studies astronomy
193. 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
194. m\_d student *adj.* (short for medical) relating to the field of medicine, which is concerned with the diagnosis, treatment, and prevention of diseases and disorders; (short for medication) a substance or drug that is used to treat a medical condition or alleviate symptoms
195. co\_\_\_\_r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
196. ge\_\_\_\_e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
197. cigarette b\_\_t *v.* to strike or push something with the flat end of your hip or buttocks; to hit or knock forcefully; (noun) the remaining end of a smoked cigarette
198. 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.
199. emission ne\_\_\_\_a *n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source

ANSWERS: 192. astronomer, 193. disease, 194. med, 195. confer, 196. genome, 197. butt, 198. gene, 199. nebula

200. pro_____on of disease	<i>n.</i>	the act or process of changing to the next stage or phase or moving forward
201. re____r the contract void	<i>v.</i>	to bring someone or something into a particular state; to provide something such as service, help, etc.
202. a ga____y of famous actors	<i>n.</i>	an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
203. collaborate with co_____ues	<i>n.</i>	one of a group of a coworker, especially in a profession or a business
204. manually op_____e a machine	<i>v.</i>	to work in a particular way; to supervise something
205. or____n of information	<i>n.</i>	the first existence or beginning of something
206. a mollusk sh__l	<i>n.</i>	hard outer covering or case of eggs, nuts, some seeds, and some animals
207. st_____re and function of the brain	<i>n.</i>	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
208. 3D di_____m	<i>n.</i>	a simplified illustration of the appearance, structure, or workings of something
209. gu____y verdict	<i>adj.</i>	feeling responsible for or having done something wrong or criminal
210. traditional me_____al	<i>adj.</i>	of or relating to the treatment or cure of disease
211. ev____e	<i>v.</i>	to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 200. progression, 201. render, 202. galaxy, 203. colleague, 204. operate, 205. origin, 206. shell, 207. structure, 208. diagram, 209. guilty, 210. medicinal, 211. evolve



212. ro\_\_h and tough *adj.* not quite exact or correct; having or caused by an irregular surface
213. no\_\_l effect *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
214. get a con\_\_\_\_\_nal loan *adj.* based on or following traditional rules, standards, customs, etc.
215. extragalactic su\_\_\_\_\_va *n.* a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant
216. the stock market co\_\_\_\_\_sed *v.* to fall down or give way suddenly, often after breaking apart
217. sh\_\_k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
218. a bac\_\_\_\_\_nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
219. co\_\_\_a transplant *n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
220. digital ang\_\_\_\_\_hy *n.* a medical imaging technique that involves the visualization and examination of blood vessels, typically using the injection of a contrast agent and X-ray imaging to highlight and study the circulatory system

ANSWERS: 212. rough, 213. novel, 214. conventional, 215. supernova, 216. collapse, 217. shock, 218. background, 219. cornea, 220. angiography

221. scientific jo\_\_\_\_l *n.* a newspaper or magazine specialized in a specific topic or profession
222. as\_\_\_\_my science *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
223. a con\_\_\_\_nal style *adj.* based on or following traditional rules, standards, customs, etc.
224. re\_\_\_\_ts of fabric *n.* a small remaining quantity of something, considered separately from what has been lost or destroyed; a surviving piece or fragment of something
225. di\_\_\_\_se with CT scans *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
226. ra\_\_\_\_w after a storm *n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain
227. temporary me\_\_\_\_l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
228. solar ast\_\_\_\_er *n.* a physicist who studies astronomy
229. the professor of su\_\_\_\_y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 221. journal, 222. astronomy, 223. conventional, 224. remnant, 225. diagnose, 226. rainbow, 227. medical, 228. astronomer, 229. surgery

230. damage to internal or\_\_ns                    *n.*    a part of the body of an animal or plant that has a particular purpose and performs a specific job
231. ready to co\_\_\_\_se                            *v.*    to fall down or give way suddenly, often after breaking apart
232. survival k\_t                                    *n.*    a set of tools, supplies, or equipment for a particular purpose
233. ast\_\_\_\_cal numbers                        *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
234. a me\_\_\_\_l opinion                            *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
235. en\_\_\_\_en legions of people                *v.*    to give someone greater knowledge or understanding about a particular subject or situation, often in a spiritual or moral sense
236. at\_\_\_\_d a meeting                            *v.*    to be present at an event, to go to a place
237. ac\_\_\_\_e a new company                    *v.*    to buy or obtain something such as an asset, object, knowledge, etc., for oneself
238. 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
239. talented ph\_\_\_\_st                            *n.*    a scientist who specializes in the field of physics

ANSWERS: 230. organ, 231. collapse, 232. kit, 233. astronomical, 234. medical, 235. enlighten, 236. attend, 237. acquire, 238. develop, 239. physicist

240. barren st\_\_\_e *n.* a vast, wide, and usually treeless plain, typically found in semi-arid or arid regions, characterized by fertile soil and grassy vegetation, often used for grazing livestock; an expansive and open grassland ecosystem found in Eurasia and North America
241. s\_\_n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
242. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
243. visual co\_\_\_x neuron *n.* the outermost layer of an organ, especially the brain
244. my\_\_\_\_\_y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
245. re\_\_\_\_\_ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
246. in\_\_\_\_\_ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
247. t\_\_s the bottle into a trash can *v.* to throw something carelessly with a light motion
248. jo\_\_\_\_\_l articles *n.* a newspaper or magazine specialized in a specific topic or profession

ANSWERS: 240. steppe, 241. scan, 242. evolve, 243. cortex, 244. mystery, 245. recognize, 246. invasive, 247. toss, 248. journal

249. exp\_\_\_\_\_on of interest      *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
250. a mag\_\_\_\_\_nt mountain      *adj.* extremely beautiful and impressive; grand or noble in thought or deed
251. sales rep\_\_\_\_\_ion      *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
252. the evo\_\_\_\_\_ary process      *adj.* relating to or denoting how living things develop or change from earlier forms
253. am\_\_e everyone      *v.* to fill with wonder, surprise, or admiration
254. a criminal bac\_\_\_\_\_nd      *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

ANSWERS: 249. expression, 250. magnificent, 251. representation, 252. evolutionary, 253. amaze, 254. background

## Session 3: Fill in the Blanks

1. X-rays revealed a small tumor in his \_\_\_\_\_.  
*n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
2. She agreed to \_\_\_\_\_ with him in creating new artwork.  
*v.* to work with someone else to produce or achieve something
3. The outermost electron \_\_\_\_\_ determines the chemical properties of an atom.  
*n.* hard outer covering or case of eggs, nuts, some seeds, and some animals
4. Wild animals need to go forward with the \_\_\_\_\_ action to survive.  
*adj.* the best; most likely to be successful or advantageous
5. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.  
*adj.* of or relating to the treatment or cure of disease
6. The building makes a remarkable \_\_\_\_\_ impact.  
*adj.* relating to seeing or sight
7. \_\_\_\_\_ algorithms are essential for identifying and analyzing patterns in biological data.  
*n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas
8. The cerebral \_\_\_\_\_ consists of six layers.  
*n.* the outermost layer of an organ, especially the brain

ANSWERS: 1. brain, 2. collaborate, 3. shell, 4. optimal, 5. medicinal, 6. visual, 7. Bioinformatics, 8. cortex

9. She tried to \_\_\_\_\_ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
10. The \_\_\_\_\_ of smoke rising from the building signaled a massive fire.
- n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
11. The \_\_\_\_\_ of the car was too fast for the road conditions.
- n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
12. The professor explained the \_\_\_\_\_ of the nervous system.
- n.* the scientific study that deals with the physical structure of humans, animals, or plants
13. The jury must \_\_\_\_\_ a decision on this complex case.
- v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
14. She is very \_\_\_\_\_ in her thoughts.
- adj.* based on or following traditional rules, standards, customs, etc.
15. He had a deep passion for extragalactic \_\_\_\_\_ and spent hours observing the night sky.
- n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
16. The \_\_\_\_\_ has largely gotten positive feedback.
- n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

ANSWERS: 9. visualize, 10. pillar, 11. velocity, 12. anatomy, 13. render, 14. conventional, 15. astronomy, 16. novel

17. The company specializes in both hardware and \_\_\_\_\_.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
18. The magician's tricks \_\_\_\_\_ the audience.
- v.* to fill with wonder, surprise, or admiration
19. 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
20. 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
21. Both parties were pleased with the \_\_\_\_\_ discussion.
- adj.* willing to listen to or consider new or different ideas
22. In the city, the risk of traffic accidents \_\_\_\_\_ at every corner.
- v.* to wait somewhere secretly, especially because you are about to attack someone or do something bad or illegal
23. The \_\_\_\_\_ shattered the laboratory equipment.
- n.* explosion, or a strong current of air, usually caused by an explosion; a sudden, thunderous noise
24. The company's success was largely due to its effective use of \_\_\_\_\_ to identify customer trends and preferences.
- n.* the process of extracting valuable insights or knowledge from large, complex sets of data by using analytical techniques and algorithms to identify patterns, relationships, or trends

ANSWERS: 17. software, 18. amazed, 19. universe, 20. disease, 21. open-minded, 22. lurks, 23. blast, 24. data-mining



25. The galactic \_\_\_\_\_ was a beautiful sight through the telescope, with its vibrant colors and swirling clouds.
- n.* a cloud of gas and dust in space, visible in the night sky, typically as a diffuse light source
26. 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
27. The \_\_\_\_\_ disease can spread quickly and potentially cause a global pandemic.
- adj.* spreading very quickly, and often aggressively, and difficult to stop
28. He had painted the wood to \_\_\_\_\_ stone.
- v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
29. Some overzealous environmentalists claim celebrities are committing carbon dioxide \_\_\_\_\_.
- n.* the offense against a religious or moral law or against God
30. The cost of the new equipment was \_\_\_\_\_ and beyond the company's budget.
- adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
31. The election was a \_\_\_\_\_ success for the Whigs.
- adj.* worthy of attention because unusual or special

ANSWERS: 25. nebula, 26. develop, 27. invasive, 28. simulate, 29. sins, 30. astronomical, 31. remarkable

32. The \_\_\_\_\_ technology was revolutionary in its field.

*adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

33. The patient underwent \_\_\_\_\_ angiography to visualize the blood flow in his heart.

*adj.* of or relating to the heart, especially the arteries that supply blood to the heart muscle; (noun) medical conditions related to these arteries, such as coronary artery disease

34. The company's \_\_\_\_\_ in the market was expanding to new territories.

*n.* a specific sphere of influence or control; a specific field of knowledge or expertise

35. Children \_\_\_\_\_ language at a fantastic rate.

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

36. The physician is reading the \_\_\_\_\_ related to medicine

*n.* a newspaper or magazine specialized in a specific topic or profession

37. The nomadic tribes set up camp on the vast \_\_\_\_\_.

*n.* a vast, wide, and usually treeless plain, typically found in semi-arid or arid regions, characterized by fertile soil and grassy vegetation, often used for grazing livestock; an expansive and open grassland ecosystem found in Eurasia and North America

38. The team gained \_\_\_\_\_ after scoring their first goal.

*n.* the force or power that is gained by a moving object; a strength or impetus gained through a process of development or activity

ANSWERS: 32. cutting-edge, 33. coronary, 34. domain, 35. acquire, 36. journals, 37. steppe, 38. momentum

39. We \_\_\_\_\_ heavy snowfall tomorrow.

*v.* to expect or predict that something will happen; to tell in advance

40. A person who has been declared incompetent should have legal \_\_\_\_\_.

*n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

41. The leaders of the two countries met to \_\_\_\_\_ on the issue.

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

42. 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

43. We elected him to \_\_\_\_\_ us at the international conference.

*v.* to speak, act, or be present on behalf of another person or group; to form or constitute

44. The partnership program requires a mutual \_\_\_\_\_ between both agencies.

*n.* the act or situation of working together to create or produce something

45. The scientist used a \_\_\_\_\_ technique to study the cells at a microscopic level.

*n.* the scientific study of small structures or substances using microscopes, including the anatomical, physiological, and pathological aspects of cells, tissues, and organs

46. I took a \_\_\_ dose of pain reliever to ease my headache.

*adj.* (short for medical) relating to the field of medicine, which is concerned with the diagnosis, treatment, and prevention of diseases and disorders; (short for medication) a substance or drug that is used to treat a medical condition or alleviate symptoms

ANSWERS: 39. anticipate, 40. representation, 41. confer, 42. colleague, 43.

represent, 44. collaboration, 45. microscopy, 46. med

47. Her research team made an important \_\_\_\_\_.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
48. The company's hiring criteria emphasize personality, not a person's \_\_\_\_\_.
- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
49. The patient underwent a \_\_\_\_\_ scan to diagnose their medical condition.
- n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
50. This facility has the largest astronomical \_\_\_\_\_ in the country.
- n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
51. A scratched \_\_\_\_\_ can be very painful and may cause blurry vision.
- n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
52. There are various hypotheses concerning the \_\_\_\_\_ of life.
- n.* the first existence or beginning of something
53. The organizational \_\_\_\_\_ of start-ups is often flat and straightforward.
- n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
54. This question has fascinated solar \_\_\_\_\_ for decades.
- n.* a physicist who studies astronomy

ANSWERS: 47. discovery, 48. background, 49. radiology, 50. telescope, 51. cornea, 52. origin, 53. structure, 54. astronomers

55. She stood on the podium and \_\_\_\_\_ an audience.

*v.* to examine something hastily, with the eyes or with a machine, to get information

56. The patient was diagnosed with a \_\_\_\_\_ in her lung.

*n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

57. The vehicle bounced along the \_\_\_\_\_ mountain road.

*adj.* not quite exact or correct; having or caused by an irregular surface

58. She was mesmerized by the \_\_\_\_\_ colors.

*n.* an arch of colors in the sky caused by the refraction and dispersion of sunlight through rain

59. The colonial government \_\_\_\_\_ militia support when civil war broke out.

*v.* to persuade someone to work for a company; to find new members for an organization, the armed forces, etc.

60. Einstein was an outstanding and famous \_\_\_\_\_ of the 20th century.

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

61. My grandfather is seeing a \_\_\_\_\_ to monitor his heart condition.

*n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system

62. The doctor gave a \_\_\_\_\_ expression after seeing the patient's unusual symptoms.

*adj.* expressing puzzlement, questioning, or curiosity through a facial expression or demeanor; having an appearance or manner that suggests confusion or mild skepticism

ANSWERS: 55. scanned, 56. tumor, 57. rough, 58. rainbow's, 59. recruited, 60. physicist, 61. cardiologist, 62. quizzical

63. The \_\_\_\_\_ of unarmed civilians is considered a war crime.
- n.* the act of causing death; a sudden and intense force or effect that causes significant damage or destruction; a situation where someone is making a substantial amount of money or experiencing significant financial success
64. Detectives are still attempting to \_\_\_\_\_ the mystery of his death.
- v.* undo twisted, knitted, or woven threads by separating it
65. 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.
66. The researcher demonstrated the superiority of quantum \_\_\_\_\_ in several mathematical tasks.
- n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
67. This device is used to \_\_\_\_\_ brain cancer and other tumors.
- v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
68. \_\_\_\_\_ the bandage tightly around the injured arm.
- v.* to cover or enclose something entirely with paper, cloth, or other material
69. He tried to \_\_\_\_\_ his experience to the group, but they couldn't understand.
- v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
70. After much contemplation, the suspect decided to plead \_\_\_\_\_ to the theft charge.
- adj.* feeling responsible for or having done something wrong or criminal

ANSWERS: 63. killing, 64. unravel, 65. gene, 66. computation, 67. diagnose, 68. Wrap, 69. relate, 70. guilty

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

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

72. His facial \_\_\_\_\_ showed a mix of surprise and confusion.

- n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood

73. The restaurant has chefs who \_\_\_\_\_ in beef.

- v.* to become an expert in a specific career field, study, or business

74. The teacher sought to \_\_\_\_\_ her students by introducing them to new ideas and perspectives.

- v.* to give someone greater knowledge or understanding about a particular subject or situation, often in a spiritual or moral sense

75. It would be best if you \_\_\_\_\_ out all those old magazines.

- v.* to throw something carelessly with a light motion

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

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

77. This region has many \_\_\_\_\_ offering higher education.

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

ANSWERS: 71. mystery, 72. expression, 73. specialize, 74. enlighten, 75. tossed, 76. evolved, 77. institutes



78. He quickly learned the military \_\_\_\_\_.

- n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence

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

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

80. My \_\_\_\_\_ was overwhelming and complicated, but it was also exciting.

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

81. The lobbyist \_\_\_\_\_ Congress not to approve the measure.

- v.* to spur on or encourage someone, especially by cheers and shouts; (noun) a strong desire or impulse, especially one that is difficult to control or resist

82. He got an electric \_\_\_\_\_ at work.

- n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

83. The doctor carefully examined the \_\_\_\_\_ medical history.

- n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

84. The new washing machine is much more \_\_\_\_\_ than the old one.

- adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

85. The discovery of penicillin was a result of \_\_\_\_\_.

- n.* the occurrence and development of events by chance in a happy or beneficial way; a fortunate accident or discovery

ANSWERS: 78. discipline, 79. exploded, 80. assignment, 81. urged, 82. shock, 83. patient's, 84. efficient, 85. serendipity

86. \_\_\_\_\_ algorithms can find ways to optimize that humans do not anticipate.

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

87. 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

88. The only \_\_\_\_\_ left of the ancient civilization was the crumbling ruins of their temples.

*n.* a small remaining quantity of something, considered separately from what has been lost or destroyed; a surviving piece or fragment of something

89. The company has made great strides in its \_\_\_\_\_ toward sustainability.

*n.* the act or process of changing to the next stage or phase or moving forward

90. He was sick for five \_\_\_\_\_ days.

*adj.* extending or moving in one direction without bending or curving; having no deviations

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

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

92. He has an \_\_\_\_\_ spirit and is unafraid of risks.

*adj.* willing to take risks and try new or difficult things

93. We must \_\_\_\_\_ to this matter.

*v.* to be present at an event, to go to a place

ANSWERS: 86. Evolutionary, 87. literally, 88. remnant, 89. progression, 90. straight, 91. physics, 92. adventurous, 93. attend

94. The bald \_\_\_\_\_ symbolizes freedom and strength in the United States.
- n.* a large predatory bird with a hooked beak and broad wings, known for its keen eyesight and powerful flight; a symbol of strength and freedom in many cultures
95. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
96. The unique style of this martial arts \_\_\_\_\_ many action film producers.
- v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
97. \_\_\_\_\_ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
- adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
98. It's important to \_\_\_\_\_ your strengths and weaknesses.
- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
99. During debates in the legislature, the \_\_\_\_\_ of the law caused a lot of controversies.
- n.* a preliminary version of something that is not yet in its final form
100. He is drawing a \_\_\_\_\_ illustrating how the equipment operates.
- n.* a simplified illustration of the appearance, structure, or workings of something
101. The photographer adjusted the camera to focus on the image's \_\_\_\_\_ point.
- adj.* relating to an important or central point or area; sharp or precise in focus or detail

ANSWERS: 94. eagle, 95. chemistry, 96. inspired, 97. Biomedical, 98. recognize, 99. draft, 100. diagram, 101. focal

102. There is a lot of \_\_\_\_\_ in the colors of flowers in the garden.  
*n.* the act or state of changing; a difference or change in the way something is done, made or said
103. The invention of the smartphone \_\_\_\_\_ the way we communicate with each other.  
*v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
104. \_\_\_\_\_ elections were held in several European countries.  
*adj.* belonging to or used by a group rather than individuals; for common use
105. The children complained because one \_\_\_\_\_ of cake was slightly larger than the other.  
*n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
106. The goats often \_\_\_\_\_ heads when they are fighting for dominance.  
*v.* to strike or push something with the flat end of your hip or buttocks; to hit or knock forcefully; (noun) the remaining end of a smoked cigarette
107. Flight across the \_\_\_\_\_ was a daring adventure in its day.  
*n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
108. The \_\_\_\_\_ approach to solving the problem involved experts from multiple fields working together.  
*adj.* involving or combining several academic disciplines or fields of study
109. The \_\_\_\_\_ scene of the glacier is awe-inspiring.  
*adj.* extremely beautiful and impressive; grand or noble in thought or deed

ANSWERS: 102. variation, 103. revolutionized, 104. Communal, 105. slice, 106. butt, 107. continent, 108. interdisciplinary, 109. magnificent

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

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

111. The \_\_\_\_\_ explosion created a bright new star in the night sky.

*n.* a powerful and luminous explosion that occurs in some stars, resulting in an extremely bright, short-lived object that later fades into a supernova remnant

112. Continuous consumption of fatty foods leads to the hardening of the \_\_\_\_\_.

*n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

113. After experiencing chest pains, he underwent coronary \_\_\_\_\_ to check for blockages in his heart's arteries.

*n.* a medical imaging technique that involves the visualization and examination of blood vessels, typically using the injection of a contrast agent and X-ray imaging to highlight and study the circulatory system

114. It's intriguing to compare and \_\_\_\_\_ the two authors.

*v.* to put in opposition to show or emphasize differences

115. The roof finally \_\_\_\_\_ after three days and three nights of heavy snowfall.

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

116. He had undergone heart \_\_\_\_\_ years before.

*n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

117. The Milky Way \_\_\_\_\_ has numerous water-bearing planets.

*n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 110. kit, 111. supernova, 112. artery, 113. angiography, 114. contrast, 115. collapsed, 116. surgery, 117. galaxy

118. 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
119. The car's front bumper cost fifteen hundred \_\_\_\_\_.  
*n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
120. This machine is too difficult to \_\_\_\_\_ for me.  
*v.* to work in a particular way; to supervise something
121. The store only accepts payment in cash, no credit or debit cards, only \_\_\_\_\_.  
*n.* coins or notes in a currency, as distinct from paper money; a chemical substance or group made up of identical molecules
122. The \_\_\_\_\_ team worked quickly to save the patient's life.  
*adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
123. These infections have the potential to impact practically every \_\_\_\_\_ system.  
*n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
124. 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
125. I stopped by the branch though I have no business of \_\_\_\_\_.  
*n.* the quality of being important and worthy of note
126. The introduction \_\_\_\_\_ the speaker's distinguished career as a consultant  
*v.* to make something prominent, mainly so that people give it more attention

ANSWERS: 118. genome, 119. pounds, 120. operate, 121. specie, 122. medical, 123. organ, 124. biology, 125. importance, 126. highlighted

127. My memory will \_\_\_\_\_ but my heart will live on.

v. to vanish; to fade away; to lose color; to lose freshness

ANSWERS: 127. fade,