

# Englist.me



## Vocabulary Builder Reference from...

*Susan Solomon: The promise of research with stem cells | TED Talk*

[https://www.ted.com/talks/susan\\_solomon\\_the\\_promise\\_of\\_research\\_with\\_stem\\_cells](https://www.ted.com/talks/susan_solomon_the_promise_of_research_with_stem_cells)

### All Words

#### IMPORTANT

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## Session 1: Word List

### embryonic

*adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

*synonym* : embryonal

(1) **embryonic** stem cells, (2) **embryonic** development

The project is still in its **embryonic** stage.

### stem

*n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

*synonym* : branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick

A rose has thorns on its **stem**.

### incredible

*adj.* unbelievable; enormous

*synonym* : unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

### 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.

## pluripotent

*adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

*synonym*: versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

**Pluripotent** stem cells can differentiate into any cell in the body.

## morph

*v.* to change or cause to change something or someone smoothly and gradually from one thing to another

*synonym*: alter, modify, transform

(1) **morph** into a different shape, (2) **morph** into something entirely different

This company **morphed** into an enterprise company.

## replace

*v.* to take the place of something

*synonym*: substitute, supersede, displace

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

## dam

*n.* a wall constructed over a river to block the flow of water, mainly used to generate energy

*synonym*: barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

## 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.

## extraordinary

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

*synonym*: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

## 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.

## Alzheimer

*n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

*synonym*: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

## diabetes

*n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

(1) juvenile **diabetes**, (2) **diabetes** patient

My father was tested for **diabetes**.

## polio

*n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

*synonym*: poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

## enormous

*adj.* extremely large or great

*synonym* : huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

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

## siege

*n.* the surrounding of a place and isolating it by an army to defeat those defending it

*synonym* : blockade, encirclement, barricade

(1) hostage **siege**, (2) lay **siege** to his house

People began storing up food and supplies for the **siege**.

## politically

*adv.* in a way that relates to the government or public affairs of a nation

(1) **politically** advantageous, (2) become **politically** savvy

This newspaper is supposed to be **politically** neutral.

## fin

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

*synonym* : flipper, appendage, stabilizer

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

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

## essential

*adj.* indispensable; fundamental

*synonym* : critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

## laboratory

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

*synonym* : lab, workshop, testing room

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

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

## advance

*v.* to go or move forward; to develop in a positive way  
*synonym*: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

## interference

*n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with

*synonym*: obstruction, hindrance, impedance

(1) officious **interference**, (2) **interference** wave

Unfortunately, the radio **interference** made it difficult to hear the broadcast.

## foundation

*n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes

*synonym*: base, support, groundwork

(1) **foundation** course, (2) weak **foundation**

The **foundation** of the building was cracked and needed to be repaired.

## 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.

## dominate

*v.* to have or control a lot of power and influence over somebody or something

*synonym*: govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak

The perspective of his right brain **dominates** his consciousness.

- gap** *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.  
*synonym* : opening, lacuna, spread  
(1) the **gap** between ideal and reality, (2) distance **gap**  
Many people are working together to close the gender **gap**.
- academic** *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills  
*synonym* : educational, scholarly, theoretical  
(1) **academic** probation, (2) an **academic** discussion  
An excellent historian must possess an **academic** mentality.
- pharmaceutical** *adj.* relating to the production and selling of the medical drugs  
*synonym* : drug, medication, prescription  
(1) major **pharmaceutical** companies, (2) commercial **pharmaceutical** products  
She gave money to help set up a **pharmaceutical** laboratory.
- 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.
- responsible** *adj.* answerable or accountable for something within one's power, control, or management  
*synonym* : accountable, answerable, liable  
(1) **responsible** action, (2) **responsible** for a customer service  
She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.
- accelerate** *v.* to make something faster or earlier; to cause to develop or progress more quickly  
*synonym* : speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car  
The government tried to **accelerate** the commercialization of this development.

## therapy

*n.* the act of caring for someone through medication, remedial training, etc.

*synonym*: antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**  
I underwent aversion **therapy** for my addiction to alcohol.

## ponder

*v.* to think deeply or carefully about something

*synonym*: think about, consider, reflect on

(1) **ponder** divine matters, (2) **ponder** life's meaning  
She sat quietly, **pondering** the difficult decision.

## 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**.

## hardware

*n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems

*synonym*: gear, apparatus, gadget

(1) the **hardware** department, (2) a vast inventory of **hardware**

The mouse and keyboard are essential **hardware** for operating a PC.

## genetically

*adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

*synonym*: hereditary, inherited, family-related

(1) **genetically** inherited traits, (2) **genetically** manipulated plant

The **genetically** modified crops were resistant to pests and required less water.

## diverse

*adj.* including numerous categories of individuals or entities; various

*synonym* : manifold, various, myriad

(1) **diverse** backgrounds, (2) a person of **diverse** talents  
New York is a city with a **diverse** ethnic population.

## array

*n.* a large group or collection of things or people, especially one that is impressive or attractive

*synonym* : collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops  
The customer on the Internet has to choose one from a formidable **array** of products.

## essentially

*adv.* relating to the essential features or concepts of anything

*synonym* : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same  
**Essentially**, a society is an organism.

## avatar

*n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.

*synonym* : embodiment, expression, apotheosis

(1) digital **avatar**, (2) the **avatar** of the authority  
A person's cyberspace **avatar** often represents the appearance and behavior that the person wants to be.

## sequence

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

*synonym* : arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**  
We do move forward with those tasks in **sequence** next week.



## 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.

## clinical

*adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

*synonym*: dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

## perspective

*n.* a confident attitude toward something; a particular style of thinking about something

*synonym*: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

## context

*n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

*synonym*: background, setting, environment

(1) historical **context**, (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

## identify

*v.* to recognize someone or something and say or prove who or what they are

*synonym*: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

## reprogram

*v.* to modify or recreate a program

*synonym*: recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to remove the safeguard.

## virus

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

*synonym*: bacterium, germ, ailment

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

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

## induce

*v.* to persuade someone to do something; to cause to act in a specific manner

*synonym*: cause, encourage, persuade

(1) **induce** a crisis, (2) **induce** him to see a doctor

The lack of sleep **induces** both physical and psychological diseases.

## refer

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

*synonym*: cite, allude, mention

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

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

## terrific

*adj.* causing terror or fear; extremely great or intense; very good or excellent

*synonym*: fantastic, great, excellent

(1) absolutely **terrific**, (2) at a **terrific** speed

The view from the top of the mountain was **terrific**, with sweeping vistas of the valley below.

## 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**.

## biopsy

*n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease

*synonym* : examination, autopsy

(1) **biopsy** of bone marrow, (2) liquid **biopsy**

The doctor performed an excisional breast **biopsy**.

## motor

*n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

*synonym* : actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

## neuron

*n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body

*synonym* : nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

## recapitulate

*v.* to summarize or repeat the main points of something

*synonym* : summarize, repeat, restate

(1) **recapitulate** briefly, (2) **recapitulate** a speech

He **recapitulated** the main points of the meeting for those who had not been able to attend.

## 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.

## unfold

*v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

*synonym* : open, spread out, expose

(1) **unfold** the story, (2) **unfold** the stroller

The mystery **unfolded** as the detectives gathered more clues.

## toxin

*n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

*synonym* : poison, venom, contaminant

(1) **toxin** exposure, (2) **toxin** production

Mold exposure can release dangerous **toxins** into the air.

## contribute

*v.* to give something, especially money or goods, to provide or achieve something together with other people

*synonym* : donate, devote, commit

(1) **contribute** a large sum of money to the fund,

(2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

## investigator

*n.* a person whose job is to conduct an investigation or inquiry into something, often to gather information or evidence

*synonym* : inspector, sleuth, detective

(1) private **investigator**, (2) clinical **investigator**

The forensic **investigator** collected DNA samples from the crime scene to identify the perpetrator

## terribly

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

*synonym* : awfully, abominably, badly

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

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

- flee** v. to leave by running away, especially out of fear or danger  
*synonym* : exit, escape, run away  
(1) **flee** their homes, (2) **flee** abroad  
It is a basic instinct to **flee** from a dangerous situation.
- hypothesize** v. to form or present a theory or explanation without sufficient evidence; to speculate  
*synonym* : speculate, theorize, conjecture  
(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened  
Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.
- unprecedented** *adj.* never having been seen, done, or known before  
*synonym* : novel, outstanding, unparalleled  
(1) **unprecedented** boom, (2) **unprecedented** business opportunity  
**Unprecedented** amounts of heckling and slogan-shouting took place throughout the event.
- cellular** *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires  
*synonym* : organic, biological, nuclear  
(1) **cellular** and molecular biology, (2) a **cellular** phone handset  
This factory employs a **cellular** manufacturing system.
- conversation** *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.  
*synonym* : chat, discussion, dialogue  
(1) **conversation** in English, (2) a friendly **conversation**  
Your **conversation** reflects your thoughts.
- symptom** *n.* any sensation or change in body or mind that is experienced by a patient and is associated with a

particular disease

*synonym* : sign, manifestation, syndrome

(1) **symptoms** of low testosterone, (2) neurotic **symptoms**

The patient displays a **symptom** of a side effect.

## routine

*n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program

*synonym* : habit, custom, procedure

(1) **routine** business, (2) a built-in diagnostic **routine**

She studies gardening on a **routine** basis.

## problematic

*adj.* full of difficulties; difficult to deal with or solve

*synonym* : inappropriate, inconvenient, worrisome

(1) a **problematic** situation, (2) seems to be highly **problematic**

Direct democracy is effective in quickly resolving **problematic** situations within a community.

## sink

*v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

*synonym* : descend, drop, plummet

(1) **sink** a lot of capital, (2) **sink** a buzzer-beater

The abandoned ship slowly began to **sink** into the murky waters of the harbor.

## involve

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

*synonym* : implicate, include, engage

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

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

## compound

*n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

*synonym* : combination, mixture, blend

(1) aquatic **compound**, (2) harmful **compound**

Common salt is a sodium and chlorine **compound**.

## creature

*n.* a living being, especially an animal

*synonym* : being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

## engineer

*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

*synonym* : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

## characteristic

*n.* a typical feature or quality that can identify, tell apart, or describe something or somebody

*synonym* : feature, quality, attribute

(1) stripes **characteristic** of the zebra, (2) my friend's **characteristic** laugh

Bananas have their **characteristic** taste and odor.

## 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**.

## cardiac

*adj.* of or relating to the heart or heart disease

(1) **cardiac** arrest, (2) **cardiac** disease

The **cardiac** output of a resting adult is around three quarts per minute.

- lab** *n.* a workplace for the conduct of scientific research; a laboratory  
*synonym*: workshop, laboratory, research chamber  
(1) **lab** instrument, (2) medical **lab**  
The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.
- liver** *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins  
(1) **liver** disease, (2) fatty **liver**  
The patient will undergo **liver** transplant surgery tomorrow.
- absolutely** *adv.* without restriction or limitation; completely or utterly  
*synonym*: completely, utterly, definitely  
(1) **absolutely** against, (2) **absolutely** obsessed with the girl  
I am **absolutely** opposed to his idea because of morality.
- assay** *v.* to analyze or test a substance for its chemical composition or its quantity; to attempt or try something  
*synonym*: analyze, test, examine  
(1) **assay** the sample, (2) **assay** the protein  
Scientists must **assay** the chemical properties of the new drug before using it on humans.
- medication** *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease  
*synonym*: cure, drug, medicine  
(1) antibiotic **medication**, (2) **medication** by mouth  
The pharmacist not only prescribes the **medication** but also guides its proper use.
- genetic** *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes  
*synonym*: hereditary, genetical, inborn  
(1) have **genetic** testing, (2) a **genetic** disorder



Understanding protein folding is a vital step in deciphering the **genetic** code.

### makeup

*n.* colored substances used on someone's face to improve or change their appearance

*synonym* : maquillage, composition, cosmetic

(1) **makeup** artist, (2) take the **makeup** off her face

Her beauty resulted from a good night's sleep rather than **makeup**.

### ineffective

*adj.* not producing any significant or intended effect or result

*synonym* : useless, feeble, fruitless

(1) an **ineffective** speech, (2) pull an **ineffective** player

These treatments were **ineffective** against a virus.

### similarly

*adv.* in almost the same way

*synonym* : also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

### obvious

*adj.* easy to see, discover or understand

*synonym* : apparent, conspicuous, evident

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

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

### unfortunately

*adv.* by bad luck; unluckily

*synonym* : regrettably, unluckily, alas

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

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

### industrious

*adj.* hardworking, diligent, and persistent in effort

*synonym* : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student  
He was known to be very **industrious** and would often work late into the night.

## hike

*n.* a long walk or journey, especially for pleasure or exercise; an increase in cost

*synonym*: walk, trek, excursion

(1) go on a **hike**, (2) a **hike** in prices

The family decided to **hike** in the mountains to enjoy the beautiful scenery.

## complicated

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

*synonym*: complex, convoluted, intricate

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

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

## suffer

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

*synonym*: endure, undergo, tolerate

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

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

## severe

*adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous

*synonym*: harsh, relentless, powerful

(1) **severe** heat, (2) a **severe** case of pneumonia

The senator received **severe** criticism from his opponent.

## arthritis

*n.* inflammation of one or more joints of the body, which include pain and stiffness

(1) medication for **arthritis**, (2) symptoms of **arthritis**

My rheumatoid **arthritis** is acting up again.

## absolute

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

*synonym* : complete, infrangible, indisputable

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

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

## lifesaver

*n.* a device or person that saves someone's life, often in an emergency or dangerous situation

*synonym* : rescuer, savior, protector

(1) **lifesaver** ring, (2) emergency **lifesaver**

The GPS device was a **lifesaver** when we got lost in the middle of nowhere.

## subset

*n.* a set of things that are contained within another larger set; a portion or division of a group or category

*synonym* : subcategory, subdivision

(1) proper **subset**, (2) **subset** selection

A **subset** of the employees will be trained in the new software program.

## scenario

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

*synonym* : plan, scheme, procedure

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

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

## petri

*n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

(1) **petri** dish test, (2) bacteria on **petri** dishes

Glass **petri** dishes are used to culture microorganisms.

## subgroup

*n.* a smaller group within a larger group

*synonym* : subset, division, segment

(1) **subgroup** of the population, (2) patient **subgroup**

The researchers divided the study participants into two **subgroups**.

### 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.

### disaster

*n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

*synonym* : catastrophe, calamity, tragedy

(1) global **disaster**, (2) **disaster** recovery

The **disaster** response team worked around the clock to aid those affected by the earthquake.

### outcome

*n.* the result or effect of an action, event, etc.

*synonym* : result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**

They awaited news of the **outcome** of the election.

### withdraw

*v.* to remove or take back something; to stop participating in something

*synonym* : retract, remove, back out

(1) **withdraw** from public life, (2) **withdraw** \$500 from my account

The company decided to **withdraw** its proposal due to public opposition.

### genetics

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

(1) the science of **genetics**, (2) **genetics** discrimination

He is a specialist in the **genetics** of aging.

### fundamental

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

*synonym* :

basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights  
Human behavior has **fundamental** characteristics.

## scalable

*adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands

*synonym*: expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

## 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.

## technique

*n.* a particular way or art of doing something that needs skill

*synonym*: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

## aspirin

*n.* a drug used to reduce pain, fever, and inflammation

(1) prescribe **aspirin**, (2) **aspirin** sensitivity

She took a tablet of **aspirin** to soothe the fever.

## craft

*n.* an activity that requires a particular skill in making things with one's hands

*synonym*: art, skill, workmanship

(1) **craft** arts of Japan, (2) **craft** manufacture

His hometown was where he first acquired the **craft** of wood carving.

## hurdle

*n.* a barrier or obstacle that must be overcome

*synonym*: obstacle, barrier, challenge

(1) overcome **hurdles**, (2) **hurdle** race

The company faced several **hurdles** in the development of its new product.

## app

*n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

*synonym*: application, software

(1) killer **app**, (2) cannot log in to the **app**

The discovery of a critical bug caused the company to delay the **app's** release.

## smartphone

*n.* a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

## stand-in

*n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor

*synonym*: substitute, replacement, understudy

(1) **stand-in** teacher, (2) use a **stand-in** in an exam

The company hired a **stand-in** for the CEO for the shareholder meeting.

## 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.

## automated

*adj.* carried out by machines or computers to replace or decrease human labor

*synonym* : computerized, mechanical, laborsaving

(1) **automated** manual transmission, (2) **automated** way

The plant will continue operating through an **automated** system 24 hours a day.

## robotic

*adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

*synonym* : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

## massive

*adj.* enormous amount; very heavy and solid

*synonym* : enormous, giant, immense

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

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

## parallel

*adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

*synonym* : aligned, side-by-side, similar

(1) a **parallel** case, (2) **parallel** processing

He walked a road **parallel** to the railroad.

## process

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

*synonym* : procedure, method, system

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

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

## eventually

*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

*synonym* : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

## relevance

*n.* the state or degree of being closely connected or appropriate to the matter at hand

*synonym* : pertinence, applicability, connection

(1) have no **relevance**, (2) **relevance** category

The **relevance** of this information to the current situation needs to be investigated.

## threshold

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

*synonym* : anteroom, brink, verge

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

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

## incurable

*adj.* not able to be cured, healed, or remedied; beyond recovery or redemption

*synonym* : unrecoverable, irreparable, hopeless

(1) **incurable** patient, (2) **incurable** romantic

The patient was diagnosed with an **incurable** disease and given only a few months to live.

## cancer

*n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

*synonym* : tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

## incredibly

*adv.* in a way that is very difficult to believe; exceedingly or extremely



*synonym* : enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly**

insecure

Several cities are experiencing **incredibly** high unemployment rates.

## Session 2: Spelling

- |                                    |  |
|------------------------------------|--|
| 1. a te_____ue in martial arts     | <i>n.</i> a particular way or art of doing something that needs skill  |
| 2. fou_____on course               | <i>n.</i> the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes |
| 3. ind_____us worker               | <i>adj.</i> hardworking, diligent, and persistent in effort  |
| 4. officious int_____nce           | <i>n.</i> the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with  |
| 5. di_____e backgrounds            | <i>adj.</i> including numerous categories of individuals or entities; various  |
| 6. sequencing of the human ge____e | <i>n.</i> the complete set or sequence of genes of a human, animal, plant, or other living things  |
| 7. the av____r of the authority    | <i>n.</i> (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.   |
| 8. ext_____ary ability             | <i>adj.</i> exceptional, unexpected, very unusual; surpassing the ordinary or usual  |

ANSWERS: 1. technique, 2. foundation, 3. industrious, 4. interference, 5. diverse, 6. genome, 7. avatar, 8. extraordinary

9. a friendly con\_\_\_\_\_ion                    *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
10. medication for ar\_\_\_\_\_is                    *n.* inflammation of one or more joints of the body, which include pain and stiffness
11. su\_\_\_\_r a setback                    *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
12. weak fou\_\_\_\_\_on                    *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
13. stripes cha\_\_\_\_\_tic of the zebra                    *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
14. 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
15. ge\_\_\_\_\_cs discrimination                    *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
16. li\_\_\_\_\_er ring                    *n.* a device or person that saves someone's life, often in an emergency or dangerous situation
17. fun\_\_\_\_\_al education                    *adj.* forming an essential base or core from which everything else develops or is affected

ANSWERS: 9. conversation, 10. arthritis, 11. suffer, 12. foundation, 13. characteristic, 14. discovery, 15. genetics, 16. lifesaver, 17. fundamental

- |                                    |             |   |
|------------------------------------|-------------|---|
| 18. su____up of the population     | <i>n.</i>   | a smaller group within a larger group   |
| 19. go on a h__e                   | <i>n.</i>   | a long walk or journey, especially for pleasure or exercise; an increase in cost  |
| 20. survival k_t                   | <i>n.</i>   | a set of tools, supplies, or equipment for a particular purpose   |
| 21. ma____e stars                  | <i>adj.</i> | enormous amount; very heavy and solid   |
| 22. au_____ed manual transmission  | <i>adj.</i> | carried out by machines or computers to replace or decrease human labor   |
| 23. back f_n                       | <i>n.</i>   | a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance   |
| 24. eve_____ly succeed             | <i>adv.</i> | finally, particularly after a long time or a lot of struggle, complications, and so on  |
| 25. prescribe as____n              | <i>n.</i>   | a drug used to reduce pain, fever, and inflammation   |
| 26. medical l_b                    | <i>n.</i>   | a workplace for the conduct of scientific research; a laboratory  |
| 27. to__n exposure                 | <i>n.</i>   | a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism |
| 28. acc_____te a chemical reaction | <i>v.</i>   | to make something faster or earlier; to cause to develop or progress more quickly   |
| 29. in_____e a lot of paperwork    | <i>v.</i>   | to include or affect someone or something as a necessary part of something else   |

ANSWERS: 18. subgroup, 19. hike, 20. kit, 21. massive, 22. automated, 23. fin, 24. eventually, 25. aspirin, 26. lab, 27. toxin, 28. accelerate, 29. involve

30. the characters that re\_\_\_\_\_nt numbers  
*v.* to speak, act, or be present on behalf of another person or group; to form or constitute
31. con\_\_\_\_\_ion in English  
*n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
32. seems to be highly pro\_\_\_\_\_ic  
*adj.* full of difficulties; difficult to deal with or solve
33. mo\_\_h into a different shape  
*v.* to change or cause to change something or someone smoothly and gradually from one thing to another
34. ca\_\_\_\_\_c arrest  
*adj.* of or relating to the heart or heart disease
35. cr\_\_t manufacture  
*n.* an activity that requires a particular skill in making things with one's hands
36. patient su\_\_\_\_\_up  
*n.* a smaller group within a larger group
37. symptoms of ar\_\_\_\_\_is  
*n.* inflammation of one or more joints of the body, which include pain and stiffness
38. permanent br\_\_n damage  
*n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
39. pr\_\_\_\_\_s improvement  
*n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 30. represent, 31. conversation, 32. problematic, 33. morph, 34. cardiac, 35. craft, 36. subgroup, 37. arthritis, 38. brain, 39. process

40. 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
41. st\_\_\_\_in teacher *n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor
42. a vast inventory of ha\_\_\_\_re *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
43. un\_\_\_\_d the story *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown
44. inc\_\_\_\_le amount *adj.* unbelievable; enormous
45. 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
46. the worst case sc\_\_\_\_io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
47. a ce\_\_\_\_ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

ANSWERS: 40. develop, 41. stand-in, 42. hardware, 43. unfold, 44. incredible, 45. discovery, 46. scenario, 47. cellular

48. a com\_\_\_\_\_ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
49. the te\_\_\_\_\_ue applied to construction *n.* a particular way or art of doing something that needs skill
50. lab\_\_\_\_\_ry accident *n.* a workplace for doing scientific research or teaching science; a lab
51. dynamically sc\_\_\_\_\_le *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
52. ess\_\_\_\_\_ly correct *adv.* relating to the essential features or concepts of anything
53. s\_\_k a buzzer-beater *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
54. high pain th\_\_\_\_\_ld *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
55. hyp\_\_\_\_\_ze what could have happened *v.* to form or present a theory or explanation without sufficient evidence; to speculate
56. ma\_\_\_\_\_e amounts *adj.* enormous amount; very heavy and solid
57. di\_\_\_\_\_er recovery *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life

ANSWERS: 48. complicated, 49. technique, 50. laboratory, 51. scalable, 52. essentially, 53. sink, 54. threshold, 55. hypothesize, 56. massive, 57. disaster

58. cr\_\_\_\_re of habit *n.* a living being, especially an animal
59. wi\_\_\_\_aw from public life *v.* to remove or take back something; to stop participating in something
60. historical co\_\_\_\_t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
61. do\_\_\_\_te possession *v.* to have or control a lot of power and influence over somebody or something
62. proper su\_\_\_\_t *n.* a set of things that are contained within another larger set; a portion or division of a group or category
63. ab\_\_\_\_te loyalty *adj.* perfect or complete or to the most considerable degree possible
64. po\_\_o epidemic *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
65. a pa\_\_\_\_el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
66. a ge\_\_\_\_c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
67. improved student ou\_\_\_\_es *n.* the result or effect of an action, event, etc.
68. a h\_\_e in prices *n.* a long walk or journey, especially for pleasure or exercise; an increase in cost

ANSWERS: 58. creature, 59. withdraw, 60. context, 61. dominate, 62. subset, 63. absolute, 64. polio, 65. parallel, 66. genetic, 67. outcome, 68. hike



69. neurotic sy\_\_\_\_ms *n.* any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease
70. ad\_\_\_\_e a cooperative relationship *v.* to go or move forward; to develop in a positive way
71. res\_\_\_\_le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
72. a civil en\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
73. si\_\_\_\_ly situated *adv.* in almost the same way
74. copyrighted so\_\_\_\_re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
75. abs\_\_\_\_ly against *adv.* without restriction or limitation; completely or utterly
76. become pol\_\_\_\_ly savvy *adv.* in a way that relates to the government or public affairs of a nation
77. plu\_\_\_\_nt embryonic cells *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
78. re\_\_r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
79. his conclusion was ob\_\_\_\_s *adj.* easy to see, discover or understand

ANSWERS: 69. symptom, 70. advance, 71. responsible, 72. engineer, 73. similarly, 74. software, 75. absolutely, 76. politically, 77. pluripotent, 78. refer, 79. obvious

80. f\_\_e abroad *v.* to leave by running away, especially out of fear or danger
81. use a st\_\_\_\_in in an exam *n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor
82. field of gene th\_\_\_\_y *n.* the act of caring for someone through medication, remedial training, etc.
83. aquatic co\_\_\_\_nd *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
84. legal co\_\_\_\_t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
85. my friend's cha\_\_\_\_\_tic laugh *n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
86. re\_\_\_\_am a database *v.* to modify or recreate a program
87. 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
88. cl\_\_\_\_al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
89. gen\_\_\_\_\_ly manipulated plant *adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

ANSWERS: 80. flee, 81. stand-in, 82. therapy, 83. compound, 84. context, 85. characteristic, 86. reprogram, 87. disease, 88. clinical, 89. genetically

90. in\_\_\_e him to see a doctor      *v.* to persuade someone to do something; to cause to act in a specific manner
91. re\_\_\_r to a map      *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
92. as\_\_\_y the protein      *v.* to analyze or test a substance for its chemical composition or its quantity; to attempt or try something
93. res\_\_\_\_\_le action      *adj.* answerable or accountable for something within one's power, control, or management
94. ca\_\_\_r research      *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
95. to\_\_\_n production      *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
96. basic br\_\_\_n function      *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
97. re\_\_\_\_\_e a phone      *v.* to take the place of something
98. su\_\_\_r bad grades      *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 90. induce, 91. refer, 92. assay, 93. responsible, 94. cancer, 95. toxin, 96. brain, 97. replace, 98. suffer

99. absolutely te\_\_\_\_ic *adj.* causing terror or fear; extremely great or intense; very good or excellent
100. major pha\_\_\_\_\_cal companies *adj.* relating to the production and selling of the medical drugs
101. ro\_\_\_\_c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
102. hostage si\_\_e *n.* the surrounding of a place and isolating it by an army to defeat those defending it
103. unpre\_\_\_\_\_ted boom *adj.* never having been seen, done, or known before
104. excite the ne\_\_\_\_ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
105. the per\_\_\_\_\_ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
106. ce\_\_\_\_ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
107. re\_\_\_\_\_am a device *v.* to modify or recreate a program
108. 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

ANSWERS: 99. terrific, 100. pharmaceutical, 101. robotic, 102. siege, 103. unprecedented, 104. neuron, 105. perspective, 106. cellular, 107. reprogram, 108. disease

109. a built-in diagnostic ro\_\_\_\_e *n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program
110. in\_\_\_e a crisis *v.* to persuade someone to do something; to cause to act in a specific manner
111. inc\_\_\_\_\_ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
112. a strain of vi\_\_s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
113. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
114. mo\_\_h into something entirely different *v.* to change or cause to change something or someone smoothly and gradually from one thing to another
115. as\_\_\_\_\_n sensitivity *n.* a drug used to reduce pain, fever, and inflammation
116. ge\_\_\_e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
117. es\_\_\_\_\_al commodities of life *adj.* indispensable; fundamental
118. number of different sc\_\_\_\_\_ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
119. po\_\_o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

ANSWERS: 109. routine, 110. induce, 111. incredibly, 112. virus, 113. lab, 114. morph, 115. aspirin, 116. genome, 117. essential, 118. scenario, 119. polio

120. participate in cl\_\_\_\_al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
121. suffer te\_\_\_\_ly *adv.* very badly; to a great extent or very much
122. the science of ge\_\_\_\_cs *n.* the branch of biology that studies genes, genetic variation, and heredity in organisms
123. bacteria on pe\_\_i dishes *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
124. re\_\_\_\_ce category *n.* the state or degree of being closely connected or appropriate to the matter at hand
125. 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
126. get inc\_\_\_\_ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
127. anthropology lab\_\_\_\_ry *n.* a workplace for doing scientific research or teaching science; a lab
128. an ine\_\_\_\_ve speech *adj.* not producing any significant or intended effect or result
129. ext\_\_\_\_ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
130. at a te\_\_\_\_ic speed *adj.* causing terror or fear; extremely great or intense; very good or excellent

ANSWERS: 120. clinical, 121. terribly, 122. genetics, 123. petri, 124. relevance, 125. patient, 126. incredibly, 127. laboratory, 128. ineffective, 129. extraordinary, 130. terrific

131. overcome hu\_\_\_es *n.* a barrier or obstacle that must be overcome
132. hu\_\_\_e race *n.* a barrier or obstacle that must be overcome
133. ind\_\_\_\_\_us student *adj.* hardworking, diligent, and persistent in effort
134. I am te\_\_\_\_\_ly sorry *adv.* very badly; to a great extent or very much
135. Al\_\_\_\_\_er's brain *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
136. cannot log in to the a\_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
137. at inc\_\_\_\_\_le speed *adj.* unbelievable; enormous
138. wi\_\_\_\_\_aw \$500 from my account *v.* to remove or take back something; to stop participating in something
139. the se\_\_\_\_\_ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
140. sc\_\_\_\_\_le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
141. abs\_\_\_\_\_ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly

ANSWERS: 131. hurdle, 132. hurdle, 133. industrious, 134. terribly, 135. Alzheimer, 136. app, 137. incredible, 138. withdraw, 139. sequence, 140. scalable, 141. absolutely

142. li\_\_r disease *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
143. int\_\_\_\_\_nce wave *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
144. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
145. f\_\_e their homes *v.* to leave by running away, especially out of fear or danger
146. in\_\_\_\_\_e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
147. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
148. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
149. bi\_\_\_\_\_y of bone marrow *n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
150. do\_\_\_\_\_te over the weak *v.* to have or control a lot of power and influence over somebody or something
151. in\_\_\_\_\_le patient *adj.* not able to be cured, healed, or remedied; beyond recovery or redemption

ANSWERS: 142. liver, 143. interference, 144. medicinal, 145. flee, 146. involve, 147. biology, 148. engineer, 149. biopsy, 150. dominate, 151. incurable



152. rec\_\_\_\_\_ate a speech      *v.* to summarize or repeat the main points of something
153. ac\_\_\_\_\_ic probation      *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
154. harmful co\_\_\_\_\_nd      *n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements
155. traditional me\_\_\_\_\_al      *adj.* of or relating to the treatment or cure of disease
156. d\_m-building program      *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
157. acc\_\_\_\_\_te the car      *v.* to make something faster or earlier; to cause to develop or progress more quickly
158. em\_\_\_\_\_ic stem cells      *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
159. become increasingly com\_\_\_\_\_ed      *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
160. Al\_\_\_\_\_er's risk factors      *n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
161. ma\_\_\_p artist      *n.* colored substances used on someone's face to improve or change their appearance

ANSWERS: 152. recapitulate, 153. academic, 154. compound, 155. medicinal, 156. dam, 157. accelerate, 158. embryonic, 159. complicated, 160. Alzheimer, 161. makeup

162. an ar\_\_y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
163. emergency li\_\_\_\_\_er *n.* a device or person that saves someone's life, often in an emergency or dangerous situation
164. juvenile di\_\_\_\_\_es *n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood
165. in\_\_\_\_\_le romantic *adj.* not able to be cured, healed, or remedied; beyond recovery or redemption
166. sy\_\_\_\_\_ms of low testosterone *n.* any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease
167. gen\_\_\_\_\_ly inherited traits *adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity
168. gene va\_\_\_\_\_on *n.* the act or state of changing; a difference or change in the way something is done, made or said
169. sma\_\_\_\_\_ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
170. spread of the vi\_\_s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
171. evolutionary bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things

ANSWERS: 162. array, 163. lifesaver, 164. diabetes, 165. incurable, 166. symptom, 167. genetically, 168. variation, 169. smartphone, 170. virus, 171. biology

172. a two-dimensional ar\_\_y                    *n.* a large group or collection of things or people, especially one that is impressive or attractive
173. a desirable ou\_\_\_\_\_e                    *n.* the result or effect of an action, event, etc.
174. cr\_\_t arts of Japan                         *n.* an activity that requires a particular skill in making things with one's hands
175. en\_\_\_\_\_us potential                    *adj.* extremely large or great
176. distance g\_p                                 *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
177. em\_\_\_\_\_ic development               *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
178. hyp\_\_\_\_\_ze as to outcomes           *v.* to form or present a theory or explanation without sufficient evidence; to speculate
179. th\_\_\_\_\_y for a patient                   *n.* the act of caring for someone through medication, remedial training, etc.
180. temporary me\_\_\_\_\_l treatment         *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
181. lay si\_\_e to his house                     *n.* the surrounding of a place and isolating it by an army to defeat those defending it
182. take the ma\_\_\_\_p off her face           *n.* colored substances used on someone's face to improve or change their appearance

ANSWERS: 172. array, 173. outcome, 174. craft, 175. enormous, 176. gap, 177. embryonic, 178. hypothesize, 179. therapy, 180. medical, 181. siege, 182. makeup

183. digital av\_\_\_r *n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.
184. pol\_\_\_\_\_ly advantageous *adv.* in a way that relates to the government or public affairs of a nation
185. a person of di\_\_\_\_\_e talents *adj.* including numerous categories of individuals or entities; various
186. become ess\_\_\_\_\_ly same *adv.* relating to the essential features or concepts of anything
187. ro\_\_\_\_\_c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
188. rec\_\_\_\_\_ate briefly *v.* to summarize or repeat the main points of something
189. commercial pha\_\_\_\_\_cal products *adj.* relating to the production and selling of the medical drugs
190. a first-aid k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
191. con\_\_\_\_\_te a large sum of money to the fund *v.* to give something, especially money or goods, to provide or achieve something together with other people
192. plu\_\_\_\_\_nt gene expression *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

ANSWERS: 183. avatar, 184. politically, 185. diverse, 186. essentially, 187. robotic, 188. recapitulate, 189. pharmaceutical, 190. kit, 191. contribute, 192. pluripotent

193. eve\_\_\_\_\_ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
194. an ac\_\_\_\_\_ic discussion *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
195. se\_\_\_\_e heat *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous
196. fatty li\_\_r *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
197. private inv\_\_\_\_\_tor *n.* a person whose job is to conduct an investigation or inquiry into something, often to gather information or evidence
198. con\_\_\_\_\_te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
199. ro\_\_\_\_\_e business *n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program
200. po\_\_\_\_r life's meaning *v.* to think deeply or carefully about something
201. a mo\_\_r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
202. clinical inv\_\_\_\_\_tor *n.* a person whose job is to conduct an investigation or inquiry into something, often to gather information or evidence

ANSWERS: 193. eventually, 194. academic, 195. severe, 196. liver, 197. investigator, 198. contribute, 199. routine, 200. ponder, 201. motor, 202. investigator

203. d\_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
204. the DNA se\_\_\_\_\_ce *n.* a series of related events, actions, numbers, etc., which have a particular order
205. a me\_\_\_\_\_l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
206. unp\_\_\_\_\_ted business opportunity *adj.* never having been seen, done, or known before
207. pe\_\_i dish test *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
208. as\_\_y the sample *v.* to analyze or test a substance for its chemical composition or its quantity; to attempt or try something
209. killer a\_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
210. have ge\_\_\_\_\_c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
211. re\_\_\_\_\_nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
212. a se\_\_\_e case of pneumonia *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous

ANSWERS: 203. dam, 204. sequence, 205. medical, 206. unprecedented, 207. petri, 208. assay, 209. app, 210. genetic, 211. represent, 212. severe

213. po\_\_\_r divine matters      *v.* to think deeply or carefully about something
214. su\_\_\_t selection      *n.* a set of things that are contained within another larger set; a portion or division of a group or category
215. 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
216. the g\_p between ideal and reality      *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
217. ca\_\_\_r diagnosis      *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
218. DC mo\_\_\_r control      *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
219. the s\_\_m of a matchstick      *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
220. re\_\_\_\_e one word with another      *v.* to take the place of something
221. pull an ine\_\_\_\_ve player      *adj.* not producing any significant or intended effect or result

ANSWERS: 213. ponder, 214. subset, 215. develop, 216. gap, 217. cancer, 218. motor, 219. stem, 220. replace, 221. ineffective

222. the ha\_\_\_\_re department *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
223. 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
224. au\_\_\_\_ed way *adj.* carried out by machines or computers to replace or decrease human labor
225. id\_\_\_\_fy handwriting *v.* to recognize someone or something and say or prove who or what they are
226. a per\_\_\_\_ve view *n.* a confident attitude toward something; a particular style of thinking about something
227. even more unf\_\_\_\_ely *adv.* by bad luck; unluckily
228. s\_\_k a lot of capital *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
229. fun\_\_\_\_al rights *adj.* forming an essential base or core from which everything else develops or is affected
230. un\_\_d the stroller *v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

ANSWERS: 222. hardware, 223. patient, 224. automated, 225. identify, 226. perspective, 227. unfortunately, 228. sink, 229. fundamental, 230. unfold



231. di\_\_\_\_\_es patient *n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood
232. s\_\_m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
233. the th\_\_\_\_\_ld between rooms *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
234. ob\_\_\_\_\_s reasons *adj.* easy to see, discover or understand
235. es\_\_\_\_\_al amino acid *adj.* indispensable; fundamental
236. artificial cr\_\_\_\_\_re *n.* a living being, especially an animal
237. pa\_\_\_\_\_el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
238. have no re\_\_\_\_\_ce *n.* the state or degree of being closely connected or appropriate to the matter at hand
239. an ab\_\_\_\_\_te must *adj.* perfect or complete or to the most considerable degree possible
240. va\_\_\_\_\_on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
241. so\_\_\_\_\_re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs

ANSWERS: 231. diabetes, 232. stem, 233. threshold, 234. obvious, 235. essential, 236. creature, 237. parallel, 238. relevance, 239. absolute, 240. variation, 241. software

242. global di_____er	<i>n.</i> an unexpected event or series of events that cause widespread damage, destruction, or loss of life
243. a f_n of a plane	<i>n.</i> a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
244. ne____n cell body	<i>n.</i> a cell that is specialized to carry information within the brain and between the brain and other parts of the body
245. ad_____e the technology	<i>v.</i> to go or move forward; to develop in a positive way
246. id_____fy gene sequences	<i>v.</i> to recognize someone or something and say or prove who or what they are
247. ca_____c disease	<i>adj.</i> of or relating to the heart or heart disease
248. liquid bi____y	<i>n.</i> the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
249. a pro_____ic situation	<i>adj.</i> full of difficulties; difficult to deal with or solve
250. have si_____ly great abilities	<i>adv.</i> in almost the same way
251. unf_____ely caught in a shower	<i>adv.</i> by bad luck; unluckily
252. sma_____ne app developer	<i>n.</i> a mobile phone that functions as a computer and connects to the Internet
253. decision-making pr_____s	<i>n.</i> a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 242. disaster, 243. fin, 244. neuron, 245. advance, 246. identify, 247. cardiac, 248. biopsy, 249. problematic, 250. similarly, 251. unfortunately, 252.

smartphone, 253. process

254. en\_\_\_\_us amount

*adj.* extremely large or great

255. med\_\_\_\_\_on by mouth

*n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

256. antibiotic med\_\_\_\_\_on

*n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

ANSWERS: 254. enormous, 255. medication, 256. medication

## Session 3: Fill in the Blanks

1. The corporation \_\_\_\_\_ dominated the entire tobacco business.  
*adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
2. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.  
*adj.* of or relating to the treatment or cure of disease
3. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.  
*n.* a workplace for doing scientific research or teaching science; a lab
4. A \_\_\_\_\_ of the employees will be trained in the new software program.  
*n.* a set of things that are contained within another larger set; a portion or division of a group or category
5. Scientists \_\_\_\_\_ that the new fish species evolved to survive in deep-sea environments.  
*v.* to form or present a theory or explanation without sufficient evidence; to speculate
6. My grandmother has \_\_\_\_\_ disease requires special care and attention from her caregivers.  
*n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
7. \_\_\_\_\_ stem cells can differentiate into any cell in the body.  
*adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

ANSWERS: 1. eventually, 2. medicinal, 3. laboratory, 4. subset, 5. hypothesize, 6. Alzheimer's, 7. Pluripotent

8. 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
9. The \_\_\_\_\_ output of a resting adult is around three quarts per minute.
- adj.* of or relating to the heart or heart disease
10. The abandoned ship slowly began to \_\_\_\_\_ into the murky waters of the harbor.
- v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
11. Her response revealed \_\_\_\_\_ idiocy.
- adj.* unbelievable; enormous
12. Jockey's superior \_\_\_\_\_ brought him victory.
- n.* a particular way or art of doing something that needs skill
13. His arm was swollen and \_\_\_\_\_ red.
- adv.* very badly; to a great extent or very much
14. The deep sea \_\_\_\_\_ was unlike anything the scientists had ever seen before.
- n.* a living being, especially an animal
15. \_\_\_\_\_ a society is an organism.
- adv.* relating to the essential features or concepts of anything

ANSWERS: 8. develop, 9. cardiac, 10. sink, 11. incredible, 12. technique, 13. terribly, 14. creature, 15. Essentially,

16. He \_\_\_\_\_ the computer's operating system to remove the safeguard.  
*v.* to modify or recreate a program
17. The family decided to \_\_\_\_\_ in the mountains to enjoy the beautiful scenery.  
*n.* a long walk or journey, especially for pleasure or exercise; an increase in cost
18. Bananas have their \_\_\_\_\_ taste and odor.  
*n.* a typical feature or quality that can identify, tell apart, or describe something or somebody
19. The \_\_\_\_\_ of the building was cracked and needed to be repaired.  
*n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
20. She's a \_\_\_\_\_ pet owner who ensures her dog gets enough exercise and a healthy diet.  
*adj.* answerable or accountable for something within one's power, control, or management
21. The shark's powerful \_\_\_\_\_ allowed it to swim at high speeds.  
*n.* a thin flat part on the body of a fish or other aquatic animal used for propulsion or balance
22. His hometown was where he first acquired the \_\_\_\_\_ of wood carving.  
*n.* an activity that requires a particular skill in making things with one's hands
23. His father's death changed his whole \_\_\_\_\_ on life.  
*n.* a confident attitude toward something; a particular style of thinking about something

ANSWERS: 16. reprogrammed, 17. hike, 18. characteristic, 19. foundation, 20. responsible, 21. fins, 22. craft, 23. perspective

24. I am \_\_\_\_\_ opposed to his idea because of morality.  
*adv.* without restriction or limitation; completely or utterly
25. The lack of sleep \_\_\_\_\_ both physical and psychological diseases.  
*v.* to persuade someone to do something; to cause to act in a specific manner
26. Government workers cannot \_\_\_\_\_ to political campaigns.  
*v.* to give something, especially money or goods, to provide or achieve something together with other people
27. 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
28. Her beauty resulted from a good night's sleep rather than \_\_\_\_\_.  
*n.* colored substances used on someone's face to improve or change their appearance
29. Many people are working together to close the gender \_\_\_\_\_.  
*n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
30. Energy-efficient \_\_\_\_\_ are needed to maximize the cruising distance of electric vehicles.  
*n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
31. The recent economic downturn has resulted in \_\_\_\_\_ layoffs.  
*adj.* enormous amount; very heavy and solid

ANSWERS: 24. absolutely, 25. induces, 26. contribute, 27. genome, 28. makeup, 29. gap, 30. motors, 31. massive



32. It's important to understand the \_\_\_\_\_ of a situation before making a decision.  
*n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
33. The \_\_\_\_\_ will repair my telephone tomorrow morning.  
*n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
34. Direct democracy is effective in quickly resolving \_\_\_\_\_ situations within a community.  
*adj.* full of difficulties; difficult to deal with or solve
35. The plant will continue operating through an \_\_\_\_\_ system 24 hours a day.  
*adj.* carried out by machines or computers to replace or decrease human labor
36. The discovery of a critical bug caused the company to delay the \_\_\_\_\_ release.  
*n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
37. He was known to be very \_\_\_\_\_ and would often work late into the night.  
*adj.* hardworking, diligent, and persistent in effort
38. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.  
*n.* a workplace for the conduct of scientific research; a laboratory
39. He did \_\_\_\_\_ pen-and-ink drawings in just a few days.  
*adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze

ANSWERS: 32. context, 33. engineer, 34. problematic, 35. automated, 36. app's, 37. industrious, 38. lab, 39. complicated

40. 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
41. The surgeon removed the tumor using \_\_\_\_\_ video assistance.  
*adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
42. We argue that wages for temporary workers should \_\_\_\_\_ rise.  
*adv.* in almost the same way
43. Scientific knowledge will \_\_\_\_\_ significantly with the power of AI.  
*v.* to go or move forward; to develop in a positive way
44. The president prepared several possible \_\_\_\_\_ for an enemy attack.  
*n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
45. \_\_\_\_\_ amounts of heckling and slogan-shouting took place throughout the event.  
*adj.* never having been seen, done, or known before
46. The treatments were done but, \_\_\_\_\_ were unsuccessful.  
*adv.* by bad luck; unluckily
47. The \_\_\_\_\_ vaccine development is regarded as one of the greatest medical achievements of the 20th century.  
*n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

ANSWERS: 40. biology, 41. robotic, 42. similarly, 43. advance, 44. scenarios, 45. Unprecedented, 46. unfortunately, 47. polio

48. Trial and error is an \_\_\_\_\_ part of education.

*adj.* indispensable; fundamental

49. The GPS device was a \_\_\_\_\_ when we got lost in the middle of nowhere.

*n.* a device or person that saves someone's life, often in an emergency or dangerous situation

50. The pharmacist not only prescribes the \_\_\_\_\_ but also guides its proper use.

*n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

51. A person's cyberspace \_\_\_\_\_ often represents the appearance and behavior that the person wants to be.

*n.* (the concept in Hinduism) a god appearing in human or superhuman or animal form; a graphical representation of a user or the user's character or persona in online games, chat rooms, etc.

52. I underwent aversion \_\_\_\_\_ for my addiction to alcohol.

*n.* the act of caring for someone through medication, remedial training, etc.

53. This company \_\_\_\_\_ into an enterprise company.

*v.* to change or cause to change something or someone smoothly and gradually from one thing to another

54. He is a specialist in the \_\_\_\_\_ of aging.

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

55. They awaited news of the \_\_\_\_\_ of the election.

*n.* the result or effect of an action, event, etc.

ANSWERS: 48. essential, 49. lifesaver, 50. medication, 51. avatar, 52. therapy, 53. morphed, 54. genetics, 55. outcome

56. Shakespeare's output of poetry was \_\_\_\_\_.

*adj.* extremely large or great

57. A rose has thorns on its \_\_\_\_\_.

*n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

58. She's on the \_\_\_\_\_ of adulthood.

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

59. 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

60. This newspaper is supposed to be \_\_\_\_\_ neutral.

*adv.* in a way that relates to the government or public affairs of a nation

61. 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

62. Internet traffic volumes have increased significantly with the advent of \_\_\_\_\_.

*n.* a mobile phone that functions as a computer and connects to the Internet

63. Our body transfers information along each \_\_\_\_\_ using an electrical impulse.

*n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 56. enormous, 57. stem, 58. threshold, 59. medical, 60. politically, 61. disease, 62. smartphones, 63. neuron

64. People began storing up food and supplies for the \_\_\_\_\_.
- n.* the surrounding of a place and isolating it by an army to defeat those defending it
65. The patient was diagnosed with an \_\_\_\_\_ disease and given only a few months to live.
- adj.* not able to be cured, healed, or remedied; beyond recovery or redemption
66. Scientists must \_\_\_\_\_ the chemical properties of the new drug before using it on humans.
- v.* to analyze or test a substance for its chemical composition or its quantity; to attempt or try something
67. The \_\_\_\_\_ of this information to the current situation needs to be investigated.
- n.* the state or degree of being closely connected or appropriate to the matter at hand
68. I bought a new tool \_\_\_\_ for my home repair projects.
- n.* a set of tools, supplies, or equipment for a particular purpose
69. An excellent historian must possess an \_\_\_\_\_ mentality.
- adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
70. The company specializes in both hardware and \_\_\_\_\_.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
71. Your \_\_\_\_\_ reflects your thoughts.
- n.* an informal talk between two or more people to exchange their views, ideas, information, etc.

ANSWERS: 64. siege, 65. incurable, 66. assay, 67. relevance, 68. kit, 69. academic, 70. software, 71. conversation

72. Gandhi had an \_\_\_\_\_ zeal for nonviolence.

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

73. The company decided to \_\_\_\_\_ its proposal due to public opposition.

*v.* to remove or take back something; to stop participating in something

74. 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

75. Several cities are experiencing \_\_\_\_\_ high unemployment rates.

*adv.* in a way that is very difficult to believe; exceedingly or extremely

76. An infected person in the hospital will likely pass the \_\_\_\_\_ to others.

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

77. The forensic \_\_\_\_\_ collected DNA samples from the crime scene to identify the perpetrator

*n.* a person whose job is to conduct an investigation or inquiry into something, often to gather information or evidence

78. The investigation \_\_\_\_\_ several government agencies and is expected to take several months.

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

79. The doctor performed an excisional breast \_\_\_\_\_.

*n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease

ANSWERS: 72. absolute, 73. withdraw, 74. patient's, 75. incredibly, 76. virus, 77. investigator, 78. involves, 79. biopsy

80. This factory employs a \_\_\_\_\_ manufacturing system.

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

81. Human behavior has \_\_\_\_\_ characteristics.

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

82. The view from the top of the mountain was \_\_\_\_\_ with sweeping vistas of the valley below.

*adj.* causing terror or fear; extremely great or intense; very good or excellent

83. Please \_\_\_\_\_ to the instruction manual for further assistance.

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

84. She took a tablet of \_\_\_\_\_ to soothe the fever.

*n.* a drug used to reduce pain, fever, and inflammation

85. The company hired a \_\_\_\_\_ for the CEO for the shareholder meeting.

*n.* a person or thing that acts as a substitute, replacement, or temporary assistant for someone or something else; a double or understudy for a performer or actor

86. Glass \_\_\_\_\_ dishes are used to culture microorganisms.

*n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

87. He narrated the \_\_\_\_\_ story of his adventure.

*adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual

ANSWERS: 80. cellular, 81. fundamental, 82. terrific, 83. refer, 84. aspirin, 85. stand-in, 86. petri, 87. extraordinary

88. He walked a road \_\_\_\_\_ to the railroad.

*adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations

89. Common salt is a sodium and chlorine \_\_\_\_\_.

*n.* an item composed of two or more distinct elements combined; a chemical formed by the combination of two or more elements

90. She sat quietly, \_\_\_\_\_ the difficult decision.

*v.* to think deeply or carefully about something

91. She gave money to help set up a \_\_\_\_\_ laboratory.

*adj.* relating to the production and selling of the medical drugs

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

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

93. The government tried to \_\_\_\_\_ the commercialization of this development.

*v.* to make something faster or earlier; to cause to develop or progress more quickly

94. My father was tested for \_\_\_\_\_.

*n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

95. 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

ANSWERS: 88. parallel, 89. compound, 90. pondering, 91. pharmaceutical, 92. sequence, 93. accelerate, 94. diabetes, 95. represent



96. The \_\_\_\_\_ response team worked around the clock to aid those affected by the earthquake.
- n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
97. The mouse and keyboard are essential \_\_\_\_\_ for operating a PC.
- n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
98. The patient displays a \_\_\_\_\_ of a side effect.
- n.* any sensation or change in body or mind that is experienced by a patient and is associated with a particular disease
99. 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
100. 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
101. Breast \_\_\_\_\_ is the most common type of cancer in women.
- n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
102. The company's new software is highly \_\_\_\_\_ allowing it to handle increasing number of users.
- adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands

ANSWERS: 96. disaster, 97. hardware, 98. symptom, 99. discovery, 100. brain, 101. cancer, 102. scalable,

103. My rheumatoid \_\_\_\_\_ is acting up again.

*n.* inflammation of one or more joints of the body, which include pain and stiffness

104. Eventually, the new design will \_\_\_\_\_ all older models.

*v.* to take the place of something

105. The company faced several \_\_\_\_\_ in the development of its new product.

*n.* a barrier or obstacle that must be overcome

106. She studies gardening on a \_\_\_\_\_ basis.

*n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program

107. The customer on the Internet has to choose one from a formidable \_\_\_\_\_ of products.

*n.* a large group or collection of things or people, especially one that is impressive or attractive

108. The mystery \_\_\_\_\_ as the detectives gathered more clues.

*v.* to open up or spread out something that is folded or rolled up; to reveal or disclose something that was previously hidden or unknown

109. These treatments were \_\_\_\_\_ against a virus.

*adj.* not producing any significant or intended effect or result

110. Unfortunately, the radio \_\_\_\_\_ made it difficult to hear the broadcast.

*n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with

ANSWERS: 103. arthritis, 104. replace, 105. hurdles, 106. routine, 107. array, 108. unfolded, 109. ineffective, 110. interference

111. The older man \_\_\_\_\_ from arthritis and finds it difficult to move around.

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

112. I will introduce you to how to \_\_\_\_\_ the leading causes of the malfunction.

- v.* to recognize someone or something and say or prove who or what they are

113. Mold exposure can release dangerous \_\_\_\_\_ into the air.

- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

114. The project is still in its \_\_\_\_\_ stage.

- adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

115. The \_\_\_\_\_ for applying for a visa can be lengthy and complicated.

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

116. He \_\_\_\_\_ the main points of the meeting for those who had not been able to attend.

- v.* to summarize or repeat the main points of something

117. There are \_\_\_\_\_ differences between the two wine-producing regions.

- adj.* easy to see, discover or understand

118. The perspective of his right brain \_\_\_\_\_ his consciousness.

- v.* to have or control a lot of power and influence over somebody or something

ANSWERS: 111. suffers, 112. identify, 113. toxins, 114. embryonic, 115. process, 116. recapitulated, 117. obvious, 118. dominates

119. The senator received \_\_\_\_\_ criticism from his opponent.

*adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous

120. The patient will undergo \_\_\_\_\_ transplant surgery tomorrow.

*n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

121. Understanding protein folding is a vital step in deciphering the \_\_\_\_\_ code.

*adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes

122. The break in the \_\_\_\_ threatened the valley.

*n.* a wall constructed over a river to block the flow of water, mainly used to generate energy

123. The researchers divided the study participants into two \_\_\_\_\_.

*n.* a smaller group within a larger group

124. 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

125. New York is a city with a \_\_\_\_\_ ethnic population.

*adj.* including numerous categories of individuals or entities; various

126. The \_\_\_\_\_ modified crops were resistant to pests and required less water.

*adv.* in a way that relates to or is produced by genes (= the units in the cells of a living thing received by an animal or plant from its parents) or heredity

ANSWERS: 119. severe, 120. liver, 121. genetic, 122. dam, 123. subgroups, 124. variation, 125. diverse, 126. genetically

127. It is a basic instinct to \_\_\_\_\_ from a dangerous situation.

*v.* to leave by running away, especially out of fear or danger

128. She received special \_\_\_\_\_ training at the hospital.

*adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

ANSWERS: 127. flee, 128. clinical