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Vocabulary Builder Reference from...

Andrea M. Henle: How CRISPR lets you edit DNA |

TED Talk

[https://www.ted.com/talks/andrea_m_henle_how_cris](https://www.ted.com/talks/andrea_m_henle_how_crispr_lets_you_edit_dna)

[pr_lets_you_edit_dna](https://www.ted.com/talks/andrea_m_henle_how_crispr_lets_you_edit_dna)

All Words

IMPORTANT

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Session 1: Word List

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.

define

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

synonym: characterize, depict, express

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

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

instruction

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

synonym: education, direction, guidance

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

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

string

n. long, thin material used for tying things together, composed of several twisted threads

synonym: line, wire, rope

(1) retie the **string** and make it strong, (2) tense piano **strings**

She wore a **string** of pearls around her neck.

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

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.

basis

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym: foundation, base, ground

(1) on an equal **basis**, (2) **basis** for calculation

This evidence will form the **basis** for our discussion.

trait

n. a particular feature of your nature

synonym: attribute, feature, quality

(1) chemical **trait**, (2) personality **traits**

Multiple genes may influence behavioral **traits** concurrently.

advancement

n. the development, improvement, or progress of something

synonym: progression, breakthrough, improvement

(1) **advancement** of knowledge, (2) career **advancement**

Competition between countries resulted in fast technological **advancement**.

- edit** *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
synonym : revise, modify, adjust
(1) **edit** a history book, (2) **edit** a video
I need to **edit** this document before submitting it to my boss.
- 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.
- feat** *n.* a notable or impressive achievement, especially one that requires great skill or bravery
synonym : achievement, accomplishment, exploit
(1) intellectual **feat**, (2) **feat** accomplishment
It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.
- 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.
- drought** *n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
synonym : dryness, aridity, water shortage
(1) periods of **drought**, (2) **drought** conditions
The region has been experiencing a severe **drought**, leading to water shortages and crop failures.
- resistant** *adj.* not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection
synonym : unsusceptible, immune, invulnerable
(1) penicillin- **resistant** bacteria, (2) **resistant** to persuasion

Insects in urban areas are becoming **resistant** to insecticides.

crop

n. a plant that is cultivated in large amounts, particularly for food

synonym: output, produce, product

(1) **crop** field, (2) **crop** herbicide

Sow early for an early **crop**.

infectious

adj. able to be passed quickly from one person, animal, or plant to another, especially through air or water

synonym: contagious, epidemic, transmittable

(1) an **infectious** fever, (2) person's smile is **infectious**

Leprosy is an indolent **infectious** disease.

outbreak

n. a sudden start of something, usually a disease or something dangerous or unpleasant

synonym: eruption, outburst, explosion

(1) infectious disease **outbreaks**, (2) the **outbreak** of hostilities

The government predicts an epidemic **outbreak** of multiple viruses, including coronaviruses and influenza.

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.

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.

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.

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.

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.

marvel

n. someone something that causes feelings of wonder or surprise

synonym: wonder, phenomenon, amazement

(1) a **marvel** of beauty, (2) technical **marvel**

The space shuttle is a modern engineering **marvel**.

surprisingly

adv. in a way that causes amazement or wonder

synonym: exceptionally, notably, unusually

(1) **surprisingly** advanced culture, (2) have **surprisingly** little effect

The exam was **surprisingly** tricky for everyone.

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.

function

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

synonym : purpose, mapping, job

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

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

bacteria

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

synonym : microorganism, microbe

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

Bacteria prevalent in hospitals are often resistant to antibiotics.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely

immune.

defend

v. to protect someone or something from attack, criticism, danger, etc.

synonym: protect, guard, support

(1) **defend** my country, (2) **defend** against a threat

International law allows each nation to **defend** itself when its rights and interests are illegally violated.

archaea

n. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

synonym: microbe, microorganism

(1) **archaea** microorganism, (2) thermophile **archaea**

The study of **archaea** is important for understanding the origins of life on Earth

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

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.

naturally

adv. as might be expected; by natural manners

synonym: by nature, inherently, intrinsically

(1) **naturally** arising, (2) **naturally** regenerated forest

He was **naturally** gifted.

component

n. one of several parts that combines with others to form something bigger

synonym: element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

snippet

n. a small piece or brief extract of something

synonym: fragment, excerpt, brief

(1) **snippet** of wisdom, (2) code **snippet**

The journalist saved a **snippet** of the interview for later reference.

repetition

n. the act of doing or saying something many times

synonym: duplication, iteration, recurrence

(1) **repetition** of the word, (2) habitual **repetition**

Repetition is the mother of all learning.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

regularly

adv. at regular intervals or times

synonym: repeatedly, routinely, usually

(1) **regularly** arranged, (2) post **regularly** to a blog

This site **regularly** shares high-quality academic materials.

interspace

n. the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things

synonym: gap, interval, space

(1) **interspace** for natural light, (2) **interspace** between teeth

The surgeon made an incision in the **interspace** between two

ribs to access the patient's lungs.

palindrome

n. a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand

synonym: word palindrome, reversible, mirror-image word

(1) **palindrome** phrase, (2) **palindrome** number

The word "deified" is an example of a **palindrome**, where it reads the same backward as it does forward.

protein

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

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

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

chop

v. to cut something into pieces with a sharp tool, such as a knife

synonym: cut, hack, slice

(1) **chop** wood, (2) **chop** a meet with a knife

The cook **chopped** the vegetables for the soup.

molecular

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

synonym: microscopic, atomic

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

Molecular weight is the sum of all the atoms.

segment

n. a part or section of something; a distinct group within a larger whole

synonym: section, part, division

(1) **segment** analysis, (2) market **segment**

The report divided the data into **segments** based on age, gender, and income level.

viral

adj. relating to or caused by a virus

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

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

stitch

n. one of the tiny thread lines visible on a piece of fabric after it has been sewn

(1) a **stitch** in a garment, (2) pattern **stitch**

The wound was so deep that it needed a surgical procedure and **stitches**.

capture

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

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

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

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

snapshot

n. an informal photograph, especially one taken quickly

synonym: photo, picture, print

(1) take a **snapshot**, (2) developed **snapshot**

There were framed **snapshots** of family and friends in her room.

infection

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

synonym: contagion, disease, transmission

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

Hospitals must meet various standards to prevent nosocomial

infections.

molecule

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

synonym: particle, element, atom

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

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

bind

v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

synonym: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle

The company's rules **bind** the employee's working hours.

complexity

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

synonym: intricacy, sophistication, elaboration

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

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

scout

n. a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations

synonym: scoutmaster, explorer, surveyor

(1) boy **scout**, (2) **scout** troop

The company sent a **scout** to explore new business opportunities in the overseas market.

latch

n. a device for holding a door or gate closed, typically a sliding bar or bolt

synonym: lock, catch, bolt

(1) set the **latch**, (2) **latch** mechanism

The **latch** on the gate was broken, so the cows got loose.

recognize

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

synonym: acknowledge, identify, admit

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

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

immediately

adv. now or without delay

synonym: directly, instantly, promptly

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

immediately

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

swift

adj. happening, moving, or capable of moving quickly

synonym: quick, speedy, brisk

(1) take **swift** action, (2) a **swift** current of a river

Her voice was **swift**, yet even the last words fell lingeringly.

destroy

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

synonym: demolish, ruin, obliterate

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

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

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym: means, method, system

(1) the **mechanism** for DNA replication, (2) defense

mechanism

He discovered unique **mechanisms** for photochemical reactions.

hijack

v. to seize control of an airplane or other vehicle during an operation, especially with violence

synonym: commandeer, seize, pirate

(1) **hijack** a helicopter, (2) **hijack** a phone number

He made a desperate effort to **hijack** an airliner.

gene

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

synonym: factor, cistron

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

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

specific

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

synonym: particular, definite, distinct

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

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

typo

n. a mistake made in typing or the reproduction of a text

synonym: error, mistake, misprint

(1) full of **typos**, (2) **typo-free** resume

I noticed a **typo** in the company's annual report, stating the wrong profit margin.

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**.

attach

v. to fasten, join, or connect one thing to another

synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

snip

v. to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice

synonym : clip, trim, cut

(1) **snip** a lock of hair, (2) **snip** the wire

I must **snip** the loose thread on my shirt before it becomes a bigger problem.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

bound

v. to move forward by leaps and bounds; to form the boundary of something

synonym : jump, bounce, leap

(1) **bounded** with delight, (2) **bound** up a staircase

Canada **bounds** on the United States.

practically

adv. almost or nearly

synonym : almost, nearly, virtually

(1) **practically** constant, (2) **practically** impossible to find a parking spot

The store is **practically** empty.

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.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym : characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

nuclease

n. an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides

(1) restriction **nuclease**, (2) DNA **nuclease**

The **nuclease** enzyme is important for DNA replication and repair.

trim

v. to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance

synonym: cut, pare, prune

(1) **trim** a dog's nails, (2) **trim** the budget

I must **trim** the bushes in my front yard before they get too overgrown.

homologous

adj. having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry

synonym: corresponding, analogous, similar

(1) **homologous** genes, (2) **homologous** structures

Homologous recombination is a process that can occur during DNA repair.

prone

adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

synonym: inclined, susceptible, liable

(1) accident- **prone**, (2) **prone** to diarrhea

He was **prone** to making rash decisions.

usable

adj. able to be used; fit or ready for use or service

synonym: functional, operational, practical

(1) **usable** technology, (2) **usable** as office space

The device is only **usable** when it is connected to a power source.

separate

v. to force, take, or pull apart; mark as different

synonym: disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

template

n. a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch

synonym: pattern, model, blueprint

(1) **template** file, (2) **template** design

The **template** format provided a useful guide for creating the budget.

cocktail

n. a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal

synonym: appetizer, beverage

(1) a light **cocktail**, (2) **cocktail** of chemicals

We invited some friends for a **cocktail** party.

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.

blueprint

n. a photographic print of an early plan for a building or machine

synonym: draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint**

A business plan is a **blueprint** for your success.

rebuild

v. to build again or anew

synonym: reconstruct, renovate, restore

(1) **rebuild** a company, (2) **rebuild** communities

They are planning to **rebuild** the house after the fire.

defective

adj. having a flaw or fault that prevents proper functioning or usability; broken or imperfect in some way

synonym: faulty, flawed, imperfect

(1) **defective** gene, (2) **defective** equipment

The **defective** product was promptly recalled for safety reasons.

insert

v. to put something inside something else

synonym: introduce, add, embed

(1) **insert** coin, (2) **insert** a graphic

She **inserted** a new chapter into her manuscript.

cyst

n. a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

synonym: abscess, sac, lump

(1) **cyst** removal, (2) ovarian **cyst**

The patient was sent for an X-ray to determine the cause of the **cyst** in her abdomen.

fibrosis

n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

synonym: scarring, hardening, fibrotic disease

(1) **fibrosis** diagnosis, (2) pulmonary **fibrosis**

The doctor diagnosed him with cardiac **fibrosis**, which put him at risk for heart failure.

sickle

n. a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated

with harvest or death

synonym : scythe, crescent, cutter

(1) **sickle-shaped** moon, (2) harvest **sickle**

The blade of the **sickle** glinted in the sunlight as he swung it back and forth.

anemia

n. a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something

synonym : bloodlessness, pallor, weakness

(1) **anemia** symptoms, (2) **anemia** disease

The doctor diagnosed the patient with **anemia** due to a lack of iron in their blood.

endless

adj. having no end or conclusion; infinitely very large in size or amount

synonym : infinite, ceaseless, boundless

(1) **endless** possibilities, (2) **endless** hours

He looked out the window at the **endless** stream of people.

yield

n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym : proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

mosquito

n. a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym : insect, bug, flea

(1) **mosquito** bite, (2) **mosquito** repellent

A stagnant water area are breeding ground for **mosquitos**.

transmit

v. to send or forward an electronic signal; to pass something from one person or thing to another

synonym : convey, share, dispatch

(1) **transmit** the disease, (2) **transmit** information

Parents often **transmit** their characteristics to their children.

malaria

n. a severe disease caused by a parasite that is spread by the bite of an infected mosquito

(1) **malaria** mosquitoes, (2) **malaria-endemic** area

Many people in tropical countries die from **malaria** every year.

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.

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.

intent

n. a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something

synonym : purpose, aim, goal

(1) the **intent** of a question, (2) **intent** gaze

The designer's **intent** was to create a minimalist aesthetic for the interior of the building.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym : forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

implication

n. something that is inferred or indirectly stated; the act or fact of being involved in something

synonym: suggestion, association, conclusion

(1) the **implication** in a crime, (2) the **implication** of a word

His poem has a very significant **implication**.

ethical

adj. of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these

synonym: honorable, moral, virtuous

(1) an **ethical** doctrine, (2) shoulder **ethical** responsibility

The president must have the highest **ethical** standards.

decide

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

synonym: choose, determine, settle

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

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

Session 2: Spelling

1. hom_____us genes
adj. having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
2. have sur_____gly little effect
adv. in a way that causes amazement or wonder
3. career adv_____nt
n. the development, improvement, or progress of something
4. fi_____is diagnosis
n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
5. fun_____al education
adj. forming an essential base or core from which everything else develops or is affected
6. DNA nu_____se
n. an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
7. re_____am a database
v. to modify or recreate a program
8. a cl_____r of stars
n. a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 1. homologous, 2. surprisingly, 3. advancement, 4. fibrosis, 5. fundamental, 6. nuclease, 7. reprogram, 8. cluster

9. person's smile is inf_____us *adj.* able to be passed quickly from one person, animal, or plant to another, especially through air or water
10. shoulder et_____l responsibility *adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these
11. ma_____a mosquitoes *n.* a severe disease caused by a parasite that is spread by the bite of an infected mosquito
12. se_____t analysis *n.* a part or section of something; a distinct group within a larger whole
13. corn yi___d *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
14. ar_____a microorganism *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
15. hom_____us structures *adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
16. sn_____t of wisdom *n.* a small piece or brief extract of something
17. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

ANSWERS: 9. infectious, 10. ethical, 11. malaria, 12. segment, 13. yield, 14. archaea, 15. homologous, 16. snippet, 17. recognize

18. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
19. imm_____ly recall a product *adv.* now or without delay
20. a st____h in a garment *n.* one of the tiny thread lines visible on a piece of fabric after it has been sewn
21. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
22. us____e as office space *adj.* able to be used; fit or ready for use or service
23. key co_____nt *n.* one of several parts that combines with others to form something bigger
24. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
25. the cell of the im____e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
26. de_____ve gene *adj.* having a flaw or fault that prevents proper functioning or usability; broken or imperfect in some way
27. in____t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 18. engineer, 19. immediately, 20. stitch, 21. capture, 22. usable, 23. component, 24. process, 25. immune, 26. defective, 27. inject

28. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
29. 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
30. stress pr_____n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
31. de____e a word *v.* to state or explain precisely the nature, scope, or meaning of something
32. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
33. 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
34. periods of dr_____t *n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
35. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
36. harvest si____e *n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death

ANSWERS: 28. medical, 29. cancer, 30. protein, 31. define, 32. responsible, 33. cellular, 34. drought, 35. specific, 36. sickle

37. la__h mechanism *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
38. boy sc__t *n.* a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations
39. on an equal ba__s *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
40. pulmonary fi____is *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
41. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
42. an____a symptoms *n.* a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something
43. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 37. latch, 38. scout, 39. basis, 40. fibrosis, 41. feat, 42. anemia, 43. predict

44. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
45. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
46. habitual rep_____on *n.* the act of doing or saying something many times
47. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
48. t__o-free resume *n.* a mistake made in typing or the reproduction of a text
49. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
50. post re_____ly to a blog *adv.* at regular intervals or times
51. c__p wood *v.* to cut something into pieces with a sharp tool, such as a knife
52. personality tr__ts *n.* a particular feature of your nature
53. ovarian c__t *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

ANSWERS: 44. mechanism, 45. mechanism, 46. repetition, 47. genetic, 48. typo, 49. function, 50. regularly, 51. chop, 52. trait, 53. cyst

54. detect a vi__l code *adj.* relating to or caused by a virus
55. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
56. co_____il of chemicals *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
57. c__p field *n.* a plant that is cultivated in large amounts, particularly for food
58. a light co_____il *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
59. re_____d communities *v.* to build again or anew
60. b__d old letters into a bundle *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
61. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something
62. adv_____nt of knowledge *n.* the development, improvement, or progress of something
63. mo_____to bite *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

ANSWERS: 54. viral, 55. molecular, 56. cocktail, 57. crop, 58. cocktail, 59. rebuild, 60. bind, 61. instruction, 62. advancement, 63. mosquito

64. bl_____nt for economic reform *n.* a photographic print of an early plan for a building or machine
65. re_____ly arranged *adv.* at regular intervals or times
66. hi___k a phone number *v.* to seize control of an airplane or other vehicle during an operation, especially with violence
67. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
68. an et_____l doctrine *adj.* of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these
69. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
70. tense piano st____gs *n.* long, thin material used for tying things together, composed of several twisted threads
71. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
72. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something
73. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
74. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 64. blueprint, 65. regularly, 66. hijack, 67. decide, 68. ethical, 69. molecule, 70. string, 71. lab, 72. instruction, 73. genome, 74. molecule

75. ba__s for calculation *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
76. chemical tr__t *n.* a particular feature of your nature
77. the imp_____on in a crime *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
78. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
79. in___t a graphic *v.* to put something inside something else
80. pattern st___h *n.* one of the tiny thread lines visible on a piece of fabric after it has been sewn
81. the ou_____ak of hostilities *n.* a sudden start of something, usually a disease or something dangerous or unpleasant
82. de___d my country *v.* to protect someone or something from attack, criticism, danger, etc.
83. a bacterial in_____on *n.* a condition in which pathogenic microorganisms or viruses have entered the body
84. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
85. re_____d a company *v.* to build again or anew
86. pal_____me number *n.* a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand

ANSWERS: 75. basis, 76. trait, 77. implication, 78. component, 79. insert, 80. stitch,

81. outbreak, 82. defend, 83. infection, 84. sequence, 85. rebuild, 86. palindrome

87. us___e technology *adj.* able to be used; fit or ready for use or service
88. spread of the vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
89. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
90. en____s possibilities *adj.* having no end or conclusion; infinitely very large in size or amount
91. in___e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
92. pr____n synthesis *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
93. dr____t conditions *n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
94. an___a disease *n.* a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something
95. 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

ANSWERS: 87. usable, 88. virus, 89. feat, 90. endless, 91. invade, 92. protein, 93. drought, 94. anemia, 95. cancer

96. c__p a meet with a knife
v. to cut something into pieces with a sharp tool, such as a knife
97. in___t coin
v. to put something inside something else
98. re_____am a device
v. to modify or recreate a program
99. de___e my position
v. to state or explain precisely the nature, scope, or meaning of something
100. full of t__os
n. a mistake made in typing or the reproduction of a text
101. 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
102. na_____ly regenerated forest
adv. as might be expected; by natural manners
103. sp_____ic instructions
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
104. te_____te design
n. a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
105. na_____ly arising
adv. as might be expected; by natural manners
106. the in___t of a question
n. a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
107. a strain of vi__s
n. a tiny infectious organic material that causes disease in people, animals, and plants

ANSWERS: 96. chop, 97. insert, 98. reprogram, 99. define, 100. typo, 101. disease, 102. naturally, 103. specific, 104. template, 105. naturally, 106. intent, 107. virus

108. at___h firmly *v.* to fasten, join, or connect one thing to another
109. g__e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
110. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
111. a ma___l of beauty *n.* someone something that causes feelings of wonder or surprise
112. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
113. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
114. infectious disease ou_____aks *n.* a sudden start of something, usually a disease or something dangerous or unpleasant
115. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
116. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
117. s__p the wire *v.* to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice
118. si___e-shaped moon *n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death

ANSWERS: 108. attach, 109. gene, 110. complexity, 111. marvel, 112. medical, 113. attach, 114. outbreak, 115. decide, 116. transmit, 117. snip, 118. sickle

119. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation
120. 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
121. de___d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.
122. artificial cr_____re *n.* a living being, especially an animal
123. write him an answer imm_____ly *adv.* now or without delay
124. market se_____t *n.* a part or section of something; a distinct group within a larger whole
125. se_____te cream from milk *v.* to force, take, or pull apart; mark as different
126. ma_____a-endemic area *n.* a severe disease caused by a parasite that is spread by the bite of an infected mosquito
127. 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
128. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 119. invade, 120. cellular, 121. defend, 122. creature, 123. immediately, 124. segment, 125. separate, 126. malaria, 127. develop, 128. bacteria

129. mo_____to repellent *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
130. 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
131. technical ma____l *n.* someone something that causes feelings of wonder or surprise
132. c__t removal *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
133. c__p herbicide *n.* a plant that is cultivated in large amounts, particularly for food
134. take a sn_____ot *n.* an informal photograph, especially one taken quickly
135. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
136. pal_____me phrase *n.* a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand

ANSWERS: 129. mosquito, 130. disease, 131. marvel, 132. cyst, 133. crop, 134. snapshot, 135. engineer, 136. palindrome

137. cr____re of habit *n.* a living being, especially an animal
138. e__t a history book *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
139. re_____nt to persuasion *adj.* not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection
140. t__m a dog's nails *v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance
141. in____t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
142. sc__t troop *n.* a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations
143. architect's bl_____nt *n.* a photographic print of an early plan for a building or machine
144. in____t gaze *n.* a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
145. penicillin-re_____nt bacteria *adj.* not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection

ANSWERS: 137. creature, 138. edit, 139. resistant, 140. trim, 141. inject, 142. scout, 143. blueprint, 144. intent, 145. resistant

146. estimate pr____e costs *adj.* sharply exact or accurate or delimited
147. int_____ce for natural light *n.* the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things
148. take sw__t action *adj.* happening, moving, or capable of moving quickly
149. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
150. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
151. retie the st___g and make it strong *n.* long, thin material used for tying things together, composed of several twisted threads
152. s__p a lock of hair *v.* to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice
153. fight vi__l infections *adj.* relating to or caused by a virus
154. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
155. an inf_____us fever *adj.* able to be passed quickly from one person, animal, or plant to another, especially through air or water

ANSWERS: 146. precise, 147. interspace, 148. swift, 149. bacteria, 150. fundamental, 151. string, 152. snip, 153. viral, 154. lab, 155. infectious

156. de____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
157. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
158. en_____s hours *adj.* having no end or conclusion; infinitely very large in size or amount
159. t__m the budget *v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance
160. pr__e to diarrhea *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward
161. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
162. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
163. tr_____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
164. sur_____gly advanced culture *adv.* in a way that causes amazement or wonder
165. accident-pr__e *adj.* inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

ANSWERS: 156. destroy, 157. predict, 158. endless, 159. trim, 160. prone, 161. molecular, 162. complexity, 163. transmit, 164. surprisingly, 165. prone

166. sequencing of the human ge___e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
167. thermophile ar____a *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
168. a sw__t current of a river *adj.* happening, moving, or capable of moving quickly
169. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
170. pra_____ly constant *adv.* almost or nearly
171. g__e expression *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
172. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
173. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
174. de_____ve equipment *adj.* having a flaw or fault that prevents proper functioning or usability; broken or imperfect in some way
175. developed sn_____ot *n.* an informal photograph, especially one taken quickly

ANSWERS: 166. genome, 167. archaea, 168. swift, 169. typical, 170. practically, 171. gene, 172. responsible, 173. recognize, 174. defective, 175. snapshot

176. set the la__h *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
177. bo__d up a staircase *v.* to move forward by leaps and bounds; to form the boundary of something
178. 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
179. hi___k a helicopter *v.* to seize control of an airplane or other vehicle during an operation, especially with violence
180. toxic ch____als *adj.* relating to or connected with chemistry;
181. rep_____on of the word *n.* the act of doing or saying something many times
182. pra_____ly impossible to find a parking spot *adv.* almost or nearly
183. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
184. te_____te file *n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
185. bo__ded with delight *v.* to move forward by leaps and bounds; to form the boundary of something

ANSWERS: 176. latch, 177. bound, 178. process, 179. hijack, 180. chemical, 181. repetition, 182. practically, 183. immune, 184. template, 185. bound

186. the yi__d on the bond *n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
187. fairly ty____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
188. the DNA se____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
189. 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
190. live in a cl____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
191. b__d the man's hands *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
192. pr____e analyses *adj.* sharply exact or accurate or delimited
193. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
194. code sn____t *n.* a small piece or brief extract of something
195. treat the in____on with antibiotics *n.* a condition in which pathogenic microorganisms or viruses have entered the body

ANSWERS: 186. yield, 187. typical, 188. sequence, 189. develop, 190. cluster, 191. bind, 192. precise, 193. genetic, 194. snippet, 195. infection

196. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
197. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
198. a ch_____al compound *adj.* relating to or connected with chemistry;
199. the imp_____on of a word *n.* something that is inferred or indirectly stated; the act or fact of being involved in something
200. e__t a video *v.* to prepare written material for publication by correcting, condensing, or otherwise modifying it
201. restriction nu_____se *n.* an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
202. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
203. int_____ce between teeth *n.* the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things

ANSWERS: 196. capture, 197. function, 198. chemical, 199. implication, 200. edit, 201. nuclease, 202. destroy, 203. interspace

204. se____te video into chapter

v. to force, take, or pull apart; mark as different

ANSWERS: 204. separate

Session 3: Fill in the Blanks

1. He discovered unique _____ for photochemical reactions.
n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

2. Multiple genes may influence behavioral _____ concurrently.
n. a particular feature of your nature

3. This evidence will form the _____ for our discussion.
n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

4. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

5. He was _____ gifted.
adv. as might be expected; by natural manners

6. Canada _____ on the United States.
v. to move forward by leaps and bounds; to form the boundary of something

7. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 1. mechanisms, 2. traits, 3. basis, 4. predict, 5. naturally, 6. bounds, 7. process

8. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
9. The building was _____ in the fire and had to be rebuilt.
- v.* to ruin or damage severely or completely; to eradicate or eliminate completely
10. 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
11. _____ weight is the sum of all the atoms.
- adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
12. Hospitals must meet various standards to prevent nosocomial _____.
- n.* a condition in which pathogenic microorganisms or viruses have entered the body
13. The government predicts an epidemic _____ of multiple viruses, including coronaviruses and influenza.
- n.* a sudden start of something, usually a disease or something dangerous or unpleasant
14. They are planning to _____ the house after the fire.
- v.* to build again or anew
15. The company's rules _____ the employee's working hours.
- v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly

ANSWERS: 8. engineer, 9. destroyed, 10. cancer, 11. Molecular, 12. infections, 13. outbreak, 14. rebuild, 15. bind

16. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

17. 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

18. The body needs a certain amount of _____ to build and repair tissues.

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

19. Let's try to _____ a bit of enthusiasm into your performance.

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

20. Many people in tropical countries die from _____ every year.

n. a severe disease caused by a parasite that is spread by the bite of an infected mosquito

21. Her voice was _____ yet ever the last words fell lingeringly.

adj. happening, moving, or capable of moving quickly

22. The doctor diagnosed the patient with _____ due to a lack of iron in their blood.

n. a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something

23. The exam was _____ tricky for everyone.

adv. in a way that causes amazement or wonder

ANSWERS: 16. precise, 17. virus, 18. protein, 19. inject, 20. malaria, 21. swift, 22. anemia, 23. surprisingly

24. The scientist conducted a study that provided _____ details about the species' behavior.

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

25. It's important to _____ your strengths and weaknesses.

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

26. The cook _____ the vegetables for the soup.

v. to cut something into pieces with a sharp tool, such as a knife

27. The president must have the highest _____ standards.

adj. of or relating to principles about what is right and wrong, or the branch of knowledge dealing with these

28. Leprosy is an indolent _____ disease.

adj. able to be passed quickly from one person, animal, or plant to another, especially through air or water

29. A business plan is a _____ for your success.

n. a photographic print of an early plan for a building or machine

30. She _____ a new chapter into her manuscript.

v. to put something inside something else

31. The company sent a _____ to explore new business opportunities in the overseas market.

n. a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations

ANSWERS: 24. specific, 25. recognize, 26. chopped, 27. ethical, 28. infectious, 29. blueprint, 30. inserted, 31. scout

32. The device is only _____ when it is connected to a power source.
adj. able to be used; fit or ready for use or service
33. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
34. 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
35. The vaccination does not necessarily make you completely _____.
adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
36. The _____ product was promptly recalled for safety reasons.
adj. having a flaw or fault that prevents proper functioning or usability; broken or imperfect in some way
37. Parents often _____ their characteristics to their children.
v. to send or forward an electronic signal; to pass something from one person or thing to another
38. The _____ format provided a useful guide for creating the budget.
n. a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
39. To advance this discussion, we must _____ "success" rigorously.
v. to state or explain precisely the nature, scope, or meaning of something

ANSWERS: 32. usable, 33. complexity, 34. genome, 35. immune, 36. defective, 37. transmit, 38. template, 39. define

40. I was able to _____ the moment on film.
v. to catch a person or an animal and confine them in an area which they cannot escape
41. She wore a _____ of pearls around her neck.
n. long, thin material used for tying things together, composed of several twisted threads
42. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;
43. 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
44. International law allows each nation to _____ itself when its rights and interests are illegally violated.
v. to protect someone or something from attack, criticism, danger, etc.
45. The doctor diagnosed him with cardiac _____ which put him at risk for heart failure.
n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
46. _____ recombination is a process that can occur during DNA repair.
adj. having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
47. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds

ANSWERS: 40. capture, 41. string, 42. chemical, 43. genetic, 44. defend, 45. fibrosis, 46. Homologous, 47. molecule

48. The blade of the _____ glinted in the sunlight as he swung it back and forth.
- n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death
49. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.
- v.* to force, take, or pull apart; mark as different
50. He does not _____ importance to these rumors.
- v.* to fasten, join, or connect one thing to another
51. 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
52. His poem has a very significant _____.
- n.* something that is inferred or indirectly stated; the act or fact of being involved in something
53. The journalist saved a _____ of the interview for later reference.
- n.* a small piece or brief extract of something
54. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
- n.* a notable or impressive achievement, especially one that requires great skill or bravery
55. The surgeon made an incision in the _____ between two ribs to access the patient's lungs.
- n.* the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things

ANSWERS: 48. sickle, 49. separate, 50. attach, 51. disease, 52. implication, 53. snippet, 54. feat, 55. interspace

56. 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

57. Sow early for an early _____.

n. a plant that is cultivated in large amounts, particularly for food

58. This artwork is _____ of her work.

adj. having the usual characteristics or traits of a specific group of things

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

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

60. 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

61. The designer's _____ was to create a minimalist aesthetic for the interior of the building.

n. a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something

62. The researchers try to discover a common _____ in all types of successful organizations.

n. one of several parts that combines with others to form something bigger

63. The store is _____ empty.

adv. almost or nearly

ANSWERS: 56. medical, 57. crop, 58. typical, 59. decide, 60. cellular, 61. intent, 62. component, 63. practically

64. The region has been experiencing a severe _____ leading to water shortages and crop failures.
- n.* a long period of time during which there is very little or no rain, leading to a shortage of water and often causing damage to crops and other vegetation
65. We do move forward with those tasks in _____ next week.
- n.* a series of related events, actions, numbers, etc., which have a particular order
66. He looked out the window at the _____ stream of people.
- adj.* having no end or conclusion; infinitely very large in size or amount
67. The patient was sent for an X-ray to determine the cause of the _____ in her abdomen.
- n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
68. 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
69. I must _____ the loose thread on my shirt before it becomes a bigger problem.
- v.* to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice
70. The deep sea _____ was unlike anything the scientists had ever seen before.
- n.* a living being, especially an animal

ANSWERS: 64. drought, 65. sequence, 66. endless, 67. cyst, 68. develop, 69. snip, 70. creature

71. I must _____ the bushes in my front yard before they get too overgrown.
- v.* to make neat or tidy by clipping, cutting, or pruning away excess or unwanted parts; to adjust or modify to improve efficiency or performance
72. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
73. The _____ on the gate was broken, so the cows got loose.
- n.* a device for holding a door or gate closed, typically a sliding bar or bolt
74. This device can more accurately detect _____ pathogens.
- adj.* relating to or caused by a virus
75. Competition between countries resulted in fast technological _____.
- n.* the development, improvement, or progress of something
76. A stagnant water area are breeding ground for _____.
- n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
77. The _____ enzyme is important for DNA replication and repair.
- n.* an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
78. A defective _____ is responsible for the disease.
- n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

ANSWERS: 71. trim, 72. function, 73. latch, 74. viral, 75. advancement, 76. mosquitos, 77. nuclease, 78. gene

79. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
80. The word "deified" is an example of a _____ where it reads the same backward as it does forward.
- n.* a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand
81. A _____ of grapes hung from the vine.
- n.* a group of similar things or people close together, often forming a distinct mass or unit
82. The company's stock gives a high _____.
- n.* the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
83. This site _____ shares high-quality academic materials.
- adv.* at regular intervals or times
84. The report divided the data into _____ based on age, gender, and income level.
- n.* a part or section of something; a distinct group within a larger whole
85. There were framed _____ of family and friends in her room.
- n.* an informal photograph, especially one taken quickly

ANSWERS: 79. Bacteria, 80. palindrome, 81. cluster, 82. yield, 83. regularly, 84. segments, 85. snapshots

86. They needed further _____ to perform their duties efficiently.
n. detailed direction, order, etc., on how to do or use something
87. _____ is the mother of all learning.
n. the act of doing or saying something many times
88. Insects in urban areas are becoming _____ to insecticides.
adj. not affected by something, especially changes or new ideas; of or relating to immunity to disease or infection
89. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
90. We invited some friends for a _____ party.
n. a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
91. The space shuttle is a modern engineering _____.
n. someone something that causes feelings of wonder or surprise
92. 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
93. He made a desperate effort to _____ an airliner.
v. to seize control of an airplane or other vehicle during an operation, especially with violence

ANSWERS: 86. instruction, 87. Repetition, 88. resistant, 89. lab, 90. cocktail, 91. marvel, 92. responsible, 93. hijack

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

adv. now or without delay

95. I need to _____ this document before submitting it to my boss.

v. to prepare written material for publication by correcting, condensing, or otherwise modifying it

96. He _____ the computer's operating system to remove the safeguard.

v. to modify or recreate a program

97. I noticed a _____ in the company's annual report, stating the wrong profit margin.

n. a mistake made in typing or the reproduction of a text

98. The study of _____ is important for understanding the origins of life on Earth

n. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats

99. Human behavior has _____ characteristics.

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

100. I have no intention to _____ your privacy.

v. to enter aggressively into another's territory by military force for conquest and occupation

101. He was _____ to making rash decisions.

adj. inclined or likely to do something or to show a particular characteristic, especially something bad; lying face downward

ANSWERS: 94. immediately, 95. edit, 96. reprogrammed, 97. typo, 98. archaea, 99. fundamental, 100. invade, 101. prone

102. The wound was so deep that it needed a surgical procedure and _____.

n. one of the tiny thread lines visible on a piece of fabric after it has been sewn

ANSWERS: 102. stitches