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Vocabulary Builder Reference from...

Paul Rothemund: DNA folding, in detail | TED Talk

https://www.ted.com/talks/paul_rothemund_dna_folding_in_detail

All Words

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Session 1: Word List

argue

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

synonym : debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for dinner.

vigorously

adv. in a way that is very energetic and enthusiastic

synonym : energetically, forcefully, strongly

(1) **vigorously** shake, (2) mix **vigorously** by hand

He **vigorously** scrubbed the stains on the shirt.

definition

n. a concise explanation of the meaning of a word, phrase, or symbol

synonym : description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

reproduction

n. the process by which organisms create offspring; the production of something similar to an original work

synonym : procreation, replication, duplication

(1) **reproduction** rate, (2) **reproduction** system

The **reproduction** of the plant depends on the pollinators.

metabolism

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

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

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.

computation

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

synonym: calculation, estimation, arithmetic

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

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

execute

v. to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.

synonym: direct, conduct, enforce

(1) **execute** a bold strategy, (2) **execute** a double play

The mafioso who collaborated with the police was **executed**.

whale

n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

synonym: porpoise, giant

(1) a bull **whale**, (2) **whale** watching

Some countries have a culture of eating the flesh of a **whale**.

metaphor

n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym: conceit, analogy, symbol

(1) **metaphor** for death, (2) visual **metaphor**

She expressed her thought in an artful choice of **metaphors**.

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.

fabricate

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

synonym: manufacture, assemble, falsify

(1) **fabricate** a chemical, (2) **fabricate** an excuse

The detective discovered that the witness had **fabricated** her story about the crime.

artifact

n. a person-made object, especially one of historical or cultural interest

synonym: antique, relic, heirloom

(1) paleolithic **artifacts**, (2) Peruvian **artifacts**

The museum has a vast collection of Greek **artifacts**.

ventral

adj. relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal

synonym: abdominal, ventricose, stomachal

(1) **ventral** fin, (2) **ventral** hernia

The **ventral** side of the fish was beautifully colored.

convincing

adj. able to make someone believe that something is true
synonym : clear, compelling, believable

(1) a **convincing** victory, (2) **convincing** biochemical explanation

I found her assertion pretty **convincing**.

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.

convince

v. to persuade someone or make someone believe that something is true

synonym : persuade, win over, convert

(1) **convince** her to go with us, (2) **convince** an opponent

I am considering what I should do to **convince** him.

compelling

adj. arousing strong and irresistible interest, attention, or admiration

synonym : tempting, captivating, influential

(1) tell a **compelling** story, (2) new and **compelling** evidence

His **compelling** presentation deeply moved everyone.

peculiar

adj. odd and uncommon, sometimes in an unpleasant way

synonym : bizarre, abnormal, odd

(1) **peculiar** way, (2) **peculiar** people

The juice has a **peculiar** taste.

sensitivity

n. the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others

synonym : alertness, attentiveness, sympathy

(1) **sensitivity** analysis, (2) become full of **sensitivity**

The instrument has a high **sensitivity** to temperature changes.

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.

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.

mutation

n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym: metamorphosis, transformation, alteration

(1) **mutation** of DNA, (2) hereditary **mutation**

Radiation often promotes genetic **mutations** in plants and animals.

antenna

n. an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

synonym: feeler, receiver

(1) **antenna** of insect, (2) extend the TV **antenna**

He had a special **antenna** for public relations

princess

n. the daughter of a monarch; the wife or widow of a prince; woman or girl considered to be particularly good or admirable

synonym:

royal, noble, queen

(1) crown **princess**, (2) a Royal **Princess**

The prince fell in love with the **princess** and asked her to marry him.

bride

n. a woman on her wedding day; a woman who is about to be married or has recently been married

synonym: groom, fiancée, wife-to-be

(1) **bride** of noble birth, (2) June **bride**

The young **bride** looked stunning in her wedding gown.

hallmark

n. a distinctive characteristic or attribute of a person or thing

synonym: symbol, authentication, indication

(1) the **hallmark** of a good scientist, (2) the **hallmark** of modern life

A clear and simple expression is the **hallmark** of good writing.

flip

v. to turn over into a different position quickly; to throw or toss with a light motion

synonym: throw, jump

(1) **flip** over the pork chop, (2) **flip** a coin

He **flipped** when he heard that he had been accepted into the university.

doll

n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

synonym: puppet, dolly, toy

(1) plastic **doll**, (2) rag **doll**

The antique **doll** was worth thousands of dollars.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym:

hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

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.

underlying

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

synonym: fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

amplify

v. to enhance something, particularly sound or brightness

synonym: intensify, boost, argument

(1) **amplify** a signal, (2) **amplify** the effect

You might need to **amplify** this point.

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.

potentially

adv. in a possible state or condition; possibly

synonym: likely, possibly, probably

(1) **potentially** affected, (2) **potentially** lucrative

The organization assisted in the de-escalation of **potentially** violent situations.

synthetic

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

synonym : artificial, manufactured, fabricated

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

Synthetic diamonds play an essential role as machine tool blades.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym : attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

oriented

adj. referring to someone or something that is focused or directed toward a particular goal or objective; organized around a specific principle or approach

synonym : aligned, directed, focused

(1) **oriented** graph, (2) technology- **oriented**

The company is very customer- **oriented** and strives to provide excellent service.

biomolecule

n. a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

synonym : biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

centric

adj. tending towards or focused on a particular center, point, or perspective, sometimes to the exclusion of others; emphasizing or prioritizing a specific thing or group; (noun) something that is at the center or core of a specific thing or system

synonym :

focused, centralized, concentrated

(1) technology- **centric** approach, (2) employee- **centric** policies

The hotel's customer- **centric** approach always puts the needs and satisfaction of guests first.

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.

solar

adj. of, from, or relating to the sun

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

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

panel

n. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

synonym: board, commission, discussion

(1) **panel** discussion, (2) cost of solar **panels**

A **panel** of economic advisers from the United States visited the country to help rebuild its economy.

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.

girder

n. a large, horizontal, and structural beam, typically made of steel or concrete, that is used to support and reinforce a bridge, building, or other construction by providing

strength and stability

synonym : beam, support, brace

(1) concrete **girders**, (2) support **girder**

The construction workers carefully placed the steel **girder** onto the building frame.

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.

zealot

n. a person who has extreme opinions about something, especially religion or politics

synonym : enthusiast, crusader, extremist

(1) religious **zealot**, (2) militant **zealot**

The recent presidential elections caused a great deal of excitement among political **zealots**.

succeed

v. to accomplish or achieve a desired or intended result or goal; to prosper or attain success in a given field or endeavor

synonym : achieve, accomplish, triumph

(1) **succeed** beyond expectations, (2) **succeed** academically

I hope to **succeed** in my career and live a happy life.

compile

v. to create a book, a list, a report, etc., by combining various objects, articles, music, etc.

synonym : assemble, collect, gather

(1) **compile** a biography, (2) **compile** the data

We are attempting to **compile** a list of qualified candidates for the position.

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.

synthesizer

n. an electronic musical instrument that generates audio signals and is used to create a wide range of sounds, from imitations of traditional instruments to entirely new sounds

synonym : sampler, sequencer, module

(1) **synthesizer** bass, (2) music **synthesizer**

The electronic **synthesizer** created a range of unique sounds for the music.

seed

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

synonym : germ, kernel, ovule

(1) a **seed** coat, (2) **seed** money

He planted the **seed** in the soil and waited for it to sprout.

appropriate

adj. suitable or proper in the circumstances; fitting

synonym : fitting, suitable, proper

(1) **appropriate** behavior, (2) an **appropriate** time

It would be **appropriate** to dress nicely for the wedding.

electronics

n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

synonym : technology, gadgets, circuitry

(1) **electronics** industry, (2) **electronics** store

The company specializes in manufacturing and selling cutting-edge **electronics**.

reveal

v. to make known or disclose something that was previously hidden, secret, or unknown; to unveil or show

something that was concealed or not visible

synonym : disclose, unveil, expose

(1) **reveal** secrets, (2) **reveal** a plan

The detective carefully **revealed** the true identity of the murderer.

prejudice

n. a thought or feeling that is unfair and makes no sense, mainly when it is formed without enough thought or knowledge

synonym : bias, preconception, predisposition

(1) deep-rooted **prejudice**, (2) color **prejudice**

This community is free of social **prejudice**.

electrochemistry

n. the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

(1) **electrochemistry** device, (2) **electrochemistry** element

Many electric vehicle companies now employ **electrochemistry** capacitors for circuits.

forth

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

synonym : forward, onwards, ahead

(1) bring **forth** a beautiful vase, (2) call **forth** demand

I pushed **forth** with my new project, even though it would take much hard work.

quest

n. a long or challenging search for something

synonym : exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness

That adventurer traveled in **quest** of buried treasure.

minimal

adj. tiny in amount; the least possible

synonym : tiniest, essential, minimum

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

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

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**.

microorganism

n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

synonym : germ, microbe, bacterium

(1) pathogenic **microorganism**, (2) **microorganisms** in his gut

This **microorganism** is a producer of respiratory disease.

analogous

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

synonym : similar, comparable, equivalent

(1) **analogous** fashion, (2) entirely **analogous**

The human heart is **analogous** to a pump in a plumbing system.

writ

n. a written legal order or command

synonym : legal document, order, legal process

(1) a **writ** of summons, (2) issue a **writ**

He was served with a **writ** of eviction, giving him the notice to vacate the property.

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.

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.

structure

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

synonym: construction, architecture, establishment

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

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

norm

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

synonym: criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

stranded

adj. left in a difficult or helpless position without access to help or resources; unable to move or proceed

synonym: marooned, stuck, abandoned

(1) **stranded** travelers, (2) financially **stranded**

After their car broke down, the family was **stranded** on the side of the highway for hours.

helix

n. a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule

synonym: coil, spiral, twist

(1) **helix** structure, (2) alpha **helix**

The DNA molecule is shaped like a double **helix**.

strand

n. a very thin natural or synthetic thread, wire, hair, etc.;
(verb) to leave or drive a vessel, fish, etc., aground or ashore

synonym: fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

scare

v. to frighten a person or animal, or to become frightened

synonym: frighten, spook, intimidate

(1) **scare** off her attacker by screaming, (2) **scare** the birds away

We hit the ground to **scare** out the rabbits.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

synthesize

v. to combine a substance to make a more complex product or compound

synonym: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

tube

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

synonym: pipe, hose, duct

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

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

floppy

adj. not stiff or firm; hanging loosely

synonym:

limp, flaccid, pliable

(1) **floppy** infant, (2) **floppy** hat

The puppy's ears were still too long and **floppy** for its head.

rigid

adj. extremely strict and difficult to change or adapt;
incapable of or resistant to bending

synonym: strict, inflexible, stringent

(1) **rigid** rules, (2) **rigid** structure

He was unpopular because of his **rigid** adherence to the rules.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

descendant

n. children or offspring of a specific person, plant, or animal

synonym: child, offspring, heir

(1) **descendant** of a pioneer, (2) third-generation

descendant

Those warriors' **descendants** are still skilled archers.

dimension

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

synonym: extent, measurement, size

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

Overall **dimensions** are approximately 400x200mm.

reaction

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

synonym: response, reply, answer

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

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

elegant

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

synonym : refined, sophisticated, graceful

(1) **elegant** design, (2) write **elegant** sentences

She wore an **elegant** evening gown to the gala.

origami

n. the Japanese art or practice of folding paper into decorative shapes and figures

synonym : paper folding, paper art

(1) **origami** paper, (2) **origami** art

I love making **origami** cranes during my free time.

laptop

n. a portable computer that is small enough to be carried around easily and used on your lap

(1) bring my **laptop**, (2) thin-and-light **laptop**

I need to finish this report by tonight, so I'll be working on my **laptop** all day.

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.

intestine

n. a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

synonym : gut, bowel, tract

(1) large **intestine**, (2) **intestine** wall

The small **intestine** is responsible for absorbing most of the nutrients from food.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym : pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a

virus

Children often **infect** parents with this head cold.

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.

staple

adj. essential, crucial, or regularly used

synonym: essential, fundamental, pivotal

(1) **staple** commodities, (2) **staple** crop

Rice and beans are a **staple** food in many cultures.

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.

rectangle

n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

synonym: oblong, square, quadrangle

(1) orthogonal **rectangle**, (2) **rectangle** box

The living room had a **rectangle-shaped** coffee table in the center of it.

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.

visualize

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

synonym: imagine, picture, envision

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

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

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.

forehead

n. the part of the face above the eyebrows and below the hairline; the upper part of the face that extends from the eyes to the hairline

synonym: brow, frontal bone, temple

(1) **forehead** wrinkles, (2) kiss on the **forehead**

The athlete had sweat dripping down her **forehead** after the intense workout.

loop

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

synonym: circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for transportation.

stick

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

synonym: pierce, adhere, stay

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

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

atomic

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

synonym: tiny, microscopic, nuclear

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

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

microscope

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

synonym: lens, magnifier, eyepiece

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

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

needle

n. a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

synonym: thorn, spike, pin

(1) **needle** prick, (2) sewing **needle**

The acupuncturist inserted **needles** into specific points on my body to alleviate my pain.

bump

v. to hit or knock against something hard, often with a dull sound; to meet with by accident

synonym: collide, hit, jolt

(1) **bump** against a wall, (2) **bump** up prices

She accidentally **bumped** into him in the crowded room.

landing

n. the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest

synonym: touchdown, arrival, descent

(1) **landing** gear, (2) emergency **landing**

The plane made a rough **landing**, and everyone clapped once we came to a stop.

rough

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

synonym: inelegant, coarse, barbarian

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

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

zoom

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

synonym: move quickly, dive, buzz

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

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

jaw

n. either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information

synonym: mouth, (verb) chitchat

(1) snatch victory from the **jaws** of defeat, (2) **jaw** muscle

He dropped his **jaw** at the unexpected sight.

punch

v. to strike someone or something with one's fist; to make a hole in something

synonym: hit, strike, slap

(1) **punch** out numbers, (2) **punch** a ticket

He **punched** the wall in anger.

nanoscale

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

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

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

unsolicited

adj. given or sent without being requested or asked for; not invited or desired

synonym: uninvited, unrequested, unsought

(1) **unsolicited** email, (2) **unsolicited** proposal
The company received **unsolicited** feedback from a customer about their product.

graduate

n. a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

synonym: alumna, alum, grad

(1) **graduate** degree program, (2) honor **graduate**
Many employers hire **graduate** trainees to train as managers.

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**.

rendition

n. a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment

synonym: interpretation, performance, presentation

(1) **rendition** of judgment, (2) film **rendition**
The singer gave a beautiful **rendition** of the classic song during the concert.

leash

n. a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions

synonym: tether, lead, restraint

(1) dog **leash**, (2) walk on a **leash**
Make sure to put the **leash** on your dog before walking.

neat

adj. clean or tidy, with everything in its place

synonym: tidy, uncluttered, refined

(1) a **neat** piece of work, (2) **neat** idea
She has **neat** habits.

artwork

n. the pieces of art, such as pictures and photographs used in books, magazines, etc.

synonym : painting, picture, graphics

(1) ancient **artwork**, (2) **artwork** conservation

Videos documenting the process of creating this pencil **artwork** have been popular worldwide.

circuit

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

synonym : route, course, rotation

(1) **circuit** breaker, (2) federal **circuit** courts

An intelligent battery has a voltage monitoring **circuit**.

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.

bulb

n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

(1) wet- **bulb** thermometer, (2) a lily **bulb**

The light **bulb** has burned out.

assemble

v. to collect in one place as a single group

synonym : gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

colleague

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

synonym: coworker, associate, fellow

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

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

organ

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

synonym: function, structure

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

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

carbon

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

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

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

nanotube

n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science

(1) **nanotube** technology, (2) metallic **nanotube**

Carbon **nanotubes** are used in various fields of science and technology due to their unique properties.

promising

adj. having the potential to be successful, helpful, or beneficial; showing signs of future success or achievement

synonym: hopeful, optimistic, encouraging

(1) **promising** idea, (2) **promising** start

Several top teams scouted **promising** young athletes.

proof

n. a fact or piece of information that shows something is true or exists

synonym: testimony, evidence, assurance

(1) documentary **proof**, (2) a geometric **proof**
Proof is better than argument.

ugly

adj. unattractive in appearance; unpleasant to look at
synonym: unattractive, unsightly, repulsive

(1) an **ugly** sound, (2) **ugly** building

The **ugly** truth was that he had been lying to her for months.

visual

adj. relating to seeing or sight

synonym: optical, graphical, visible

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

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

aid

n. things sent to help countries in need, notably food or money; support

synonym: helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars

One light year is nearly 6 **trillion** miles.

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.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

assembly

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym : crowd, gathering, mass

(1) **assembly** line, (2) **assembly** hall

This company's **assembly** plant is an enormous facility.

sticky

adj. made of or covered with an adhesive substance; hot or warm and humid

synonym : adhesive, gluey, clingy

(1) **sticky** weather, (2) **sticky** situation

A peculiar **sticky** material coated the foliage.

checkerboard

n. a board having 64 squares of two alternating black and white colors used for playing draughts, also known as checker

synonym : check, plaid, patchwork

(1) **checkerboard** pattern, (2) **checkerboard** frame

This historic city is famous for its **checkerboard** streets.

amazing

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

synonym : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

translate

v. to convert or change words into another language

synonym : convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

specifically

adv. only associated with or meant for one thing

synonym : especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically**

American customers

This ad campaign is aimed **specifically** at young women.

binary

n. a system of numbers that uses only two digits, 0 and 1
synonym : twofold, double

(1) a **binary** number, (2) trading in **binary** options

A **binary** star is a system in which two stars revolve around each other.

numb

adj. unable to feel physical sensation and movement; not showing human feeling or sensitivity

synonym : dazed, insensitive, emotionless

(1) **numb** with cold, (2) a **numb** mind

My left arm became **numb**.

encode

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

synonym : transcribe, convert

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

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

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.

combine

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

synonym : coalesce, cohere, blend

(1) **combine** chemically with another substance,

(2) **combine** augmented reality

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

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.

representation

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

synonym: delegacy, manifestation, expression

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

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

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.

sensitive

adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do

synonym: exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin

The teacher is very **sensitive** to children's feelings.

compute

v. to make a mathematical calculation

synonym: calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

bearing

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

synonym: demeanor, posture, manner

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

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

affordable

adj. not expensive and able to pay

synonym : cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

exponential

adj. becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

crazy

adj. stupid or not sensible; very angry

synonym : insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

affix

v. to attach or add something to something else

synonym : attach, paste, stick

(1) **affix** a label, (2) **affix** a seal to a document

She **affixed** a stamp to the letter before mailing it.

multiplex

n. a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements

synonym : multiplexer, complex, cinema

(1) **multiplex** telegraphy, (2) **multiplex** DNA analysis

The new **multiplex** cinema has 12 screens showing the latest movies.

experimental

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what

effect they have

synonym: empirical, exploratory, observed

(1) **experimental** data, (2) **experimental** design

The product is still in the **experimental** stage.

constant

adj. happening repeatedly or all the time

synonym: ceaseless, stable, unchanging

(1) a **constant** wind, (2) a **constant** temperature

Constant dropping wears away the stone.

progression

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

synonym: advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

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.

handle

v. to deal with a situation, problem, or strong emotion

synonym: control, manage, deal with

(1) **handle** a precious object, (2) **handled** the incident

We all should learn how to **handle** stress.

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.

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.

hop

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

synonym : jump, bounce, skip

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

The rabbit **hopped** over the fence.

gadget

n. a small tool or device that is useful for a particular job

synonym : appliance, gimmick, device

(1) a handy **gadget**, (2) time-saving **gadget**

I found the kitchen **gadget** that will serve as a bottle opener in the store.

Session 2: Spelling

- | | | |
|-----------------------------------|------|--|
| 1. h_p from one place to another | v. | to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc. |
| 2. double-st___d DNA | n. | a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore |
| 3. in___t a computer with a virus | v. | to affect a person, an animal, or a plant with a disease-causing organism |
| 4. spread of the vi___s | n. | a tiny infectious organic material that causes disease in people, animals, and plants |
| 5. he___x structure | n. | a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule |
| 6. cognitive com_____ty | n. | the state or quality of being complicated or intricate and difficult to understand |
| 7. exp_____tal design | adj. | relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have |
| 8. vi_____ze flying through space | v. | to form a mental image or concept of something; to make something visible |
| 9. st___e crop | adj. | essential, crucial, or regularly used |
| 10. 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 |

ANSWERS: 1. hop, 2. strand, 3. infect, 4. virus, 5. helix, 6. complexity, 7.

experimental, 8. visualize, 9. staple, 10. function

- | | |
|---|---|
| 11. an____a of insect | <i>n.</i> an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects |
| 12. co____e chemically with another substance | <i>v.</i> to join or merge to form a single thing or group |
| 13. ancient ar____k | <i>n.</i> the pieces of art, such as pictures and photographs used in books, magazines, etc. |
| 14. ri__d structure | <i>adj.</i> extremely strict and difficult to change or adapt; incapable of or resistant to bending |
| 15. rep____ion rate | <i>n.</i> the process by which organisms create offspring; the production of something similar to an original work |
| 16. mo____le behavior | <i>n.</i> a group of two or more atoms held together by attractive forces known as chemical bonds |
| 17. co____ce her to go with us | <i>v.</i> to persuade someone or make someone believe that something is true |
| 18. st___y weather | <i>adj.</i> made of or covered with an adhesive substance; hot or warm and humid |
| 19. the crosswise di____on | <i>n.</i> a measurable extent of a particular kind, such as width, height, or length |
| 20. co____e the data | <i>v.</i> to create a book, a list, a report, etc., by combining various objects, articles, music, etc. |
| 21. di____e backgrounds | <i>adj.</i> including numerous categories of individuals or entities; various |

ANSWERS: 11. antenna, 12. combine, 13. artwork, 14. rigid, 15. reproduction, 16. molecule, 17. convince, 18. sticky, 19. dimension, 20. compile, 21. diverse

22. re_____le box *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
23. sequencing of the human ge___e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
24. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
25. a so__r eclipse *adj.* of, from, or relating to the sun
26. walk on a le__h *n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
27. extend the TV an_____a *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
28. documentary pr__f *n.* a fact or piece of information that shows something is true or exists
29. re_____am a device *v.* to modify or recreate a program
30. a co_____nt temperature *adj.* happening repeatedly or all the time
31. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
32. a thrust be_____g *n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another

ANSWERS: 22. rectangle, 23. genome, 24. stick, 25. solar, 26. leash, 27. antenna, 28. proof, 29. reprogram, 30. constant, 31. visualize, 32. bearing

33. am____y a signal *v.* to enhance something, particularly sound or brightness
34. bring fo__h a beautiful vase *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
35. 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)
36. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
37. 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
38. ne___e prick *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
39. wet-b__b thermometer *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

ANSWERS: 33. amplify, 34. forth, 35. molecular, 36. sensitive, 37. process, 38. needle, 39. bulb

40. Peruvian ar_____cts *n.* a person-made object, especially one of historical or cultural interest
41. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
42. mix vig_____ly by hand *adv.* in a way that is very energetic and enthusiastic
43. app_____te behavior *adj.* suitable or proper in the circumstances; fitting
44. b__p against a wall *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident
45. at___c bomb *adj.* of or relating to atom (= the smallest component of an element)
46. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
47. pot_____ly affected *adv.* in a possible state or condition; possibly
48. deep-rooted pr_____ce *n.* a thought or feeling that is unfair and makes no sense, mainly when it is formed without enough thought or knowledge
49. sen_____ty analysis *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
50. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 40. artifact, 41. technique, 42. vigorously, 43. appropriate, 44. bump, 45. atomic, 46. organ, 47. potentially, 48. prejudice, 49. sensitivity, 50. algorithm

51. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
52. fo_____ad wrinkles *n.* the part of the face above the eyebrows and below the hairline; the upper part of the face that extends from the eyes to the hairline
53. support gi____r *n.* a large, horizontal, and structural beam, typically made of steel or concrete, that is used to support and reinforce a bridge, building, or other construction by providing strength and stability
54. co_____ce an opponent *v.* to persuade someone or make someone believe that something is true
55. protein bio_____le *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
56. 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
57. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

ANSWERS: 51. amazing, 52. forehead, 53. girder, 54. convince, 55. biomolecule, 56. function, 57. microscope

58. human ev_____on *n.* a gradual process of transformation of living things
59. hereditary mu_____on *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
60. en___e data *v.* to convert information into a code or format suitable for storage or transmission
61. cr__y about cars and racing *adj.* stupid or not sensible; very angry
62. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
63. syn_____ze molecules *v.* to combine a substance to make a more complex product or compound
64. pa__l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
65. issue a w__t *n.* a written legal order or command
66. wh__e watching *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
67. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air

ANSWERS: 58. evolution, 59. mutation, 60. encode, 61. crazy, 62. structure, 63. synthesize, 64. panel, 65. writ, 66. whale, 67. zoom

68. former co_____ue *n.* one of a group of a coworker, especially in a profession or a business
69. a n__b mind *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
70. tr_____te a document into English *v.* to convert or change words into another language
71. write el_____t sentences *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
72. financial a_d *n.* things sent to help countries in need, notably food or money; support
73. fa_____te a chemical *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
74. 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
75. re_____on of judgment *n.* a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment
76. re_____d a company *v.* to build again or anew

ANSWERS: 68. colleague, 69. numb, 70. translate, 71. elegant, 72. aid, 73. fabricate, 74. develop, 75. rendition, 76. rebuild

77. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
78. large in_____ne *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
79. co_____e augmented reality *v.* to join or merge to form a single thing or group
80. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
81. en____e information *v.* to convert information into a code or format suitable for storage or transmission
82. co_____e an average score *v.* to make a mathematical calculation
83. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
84. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
85. me_____or for death *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
86. la_____g gear *n.* the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest

ANSWERS: 77. complexity, 78. intestine, 79. combine, 80. experimental, 81. encode, 82. compute, 83. structure, 84. molecule, 85. metaphor, 86. landing

87. fl___y infant *adj.* not stiff or firm; hanging loosely
88. field of vi___l arts *adj.* relating to seeing or sight
89. che_____ard pattern *n.* a board having 64 squares of two alternating black and white colors used for playing draughts, also known as checker
90. exp_____al function *adj.* becoming more and more rapid; of or involving mathematical exponents
91. exit from a l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
92. sales rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
93. pot_____ly lucrative *adv.* in a possible state or condition; possibly
94. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
95. or_____ed graph *adj.* referring to someone or something that is focused or directed toward a particular goal or objective; organized around a specific principle or approach
96. pathogenic mic_____ism *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

ANSWERS: 87. floppy, 88. visual, 89. checkerboard, 90. exponential, 91. loop, 92. representation, 93. potentially, 94. sensitive, 95. oriented, 96. microorganism

97. technology-ce_____c approach *adj.* tending towards or focused on a particular center, point, or perspective, sometimes to the exclusion of others; emphasizing or prioritizing a specific thing or group; (noun) something that is at the center or core of a specific thing or system
98. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
99. 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
100. the so__r system *adj.* of, from, or relating to the sun
101. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
102. co_____e the value *v.* to make a mathematical calculation
103. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
104. designed spe_____lly for men *adv.* only associated with or meant for one thing
105. 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: 97. centric, 98. indicate, 99. template, 100. solar, 101. computation, 102. compute, 103. parallel, 104. specifically, 105. bacteria

106. an app_____te time	<i>adj.</i> suitable or proper in the circumstances; fitting
107. br__e of noble birth	<i>n.</i> a woman on her wedding day; a woman who is about to be married or has recently been married
108. cultural n__m	<i>n.</i> something that is regarded as usual, typical, or standard
109. a co_____nt wind	<i>adj.</i> happening repeatedly or all the time
110. st___e commodities	<i>adj.</i> essential, crucial, or regularly used
111. in_____e a lot of paperwork	<i>v.</i> to include or affect someone or something as a necessary part of something else
112. rec_____ate briefly	<i>v.</i> to summarize or repeat the main points of something
113. mo_____ar biology	<i>adj.</i> of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
114. re_____am a database	<i>v.</i> to modify or recreate a program
115. re_____d communities	<i>v.</i> to build again or anew
116. copyrighted so_____re	<i>n.</i> a set of computer programs and associated documentation and data for doing particular computational jobs
117. mu_____ex DNA analysis	<i>n.</i> a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements

ANSWERS: 106. appropriate, 107. bride, 108. norm, 109. constant, 110. staple, 111. involve, 112. recapitulate, 113. molecular, 114. reprogram, 115. rebuild, 116. software, 117. multiplex

118. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
119. ele____cs store *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
120. damage to internal or__ns *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
121. pr____ng idea *adj.* having the potential to be successful, helpful, or beneficial; showing signs of future success or achievement
122. fa____te an excuse *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
123. metallic na____be *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
124. ar____k conservation *n.* the pieces of art, such as pictures and photographs used in books, magazines, etc.
125. pe____ar people *adj.* odd and uncommon, sometimes in an unpleasant way
126. des____nt of a pioneer *n.* children or offspring of a specific person, plant, or animal

ANSWERS: 118. genetic, 119. electronics, 120. organ, 121. promising, 122. fabricate, 123. nanotube, 124. artwork, 125. peculiar, 126. descendant

127. u__y building *adj.* unattractive in appearance; unpleasant to look at
128. a bi___y number *n.* a system of numbers that uses only two digits, 0 and 1
129. federal ci_____t courts *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
130. a private ind_____al *n.* a single person or thing, as distinct from a group
131. alpha he__x *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
132. many tr_____ons of dollars *n.* the number 1,000,000,000,000; a million million
133. re___l secrets *v.* to make known or disclose something that was previously hidden, secret, or unknown; to unveil or show something that was concealed or not visible
134. music syn_____er *n.* an electronic musical instrument that generates audio signals and is used to create a wide range of sounds, from imitations of traditional instruments to entirely new sounds
135. a con_____ng victory *adj.* able to make someone believe that something is true
136. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
137. color pr_____ce *n.* a thought or feeling that is unfair and makes no sense, mainly when it is formed without enough thought or knowledge

ANSWERS: 127. ugly, 128. binary, 129. circuit, 130. individual, 131. helix, 132. trillion, 133. reveal, 134. synthesizer, 135. convincing, 136. bunch, 137. prejudice

138. mi____l amount *adj.* tiny in amount; the least possible
139. 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
140. a st____d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
141. in____t gaze *n.* a strong determination or attention to do or achieve something; (adjective) having a strong determination to do or achieve something
142. su____d beyond expectations *v.* to accomplish or achieve a desired or intended result or goal; to prosper or attain success in a given field or endeavor
143. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
144. ro__h estimation *adj.* not quite exact or correct; having or caused by an irregular surface
145. sy____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
146. employee-ce____c policies *adj.* tending towards or focused on a particular center, point, or perspective, sometimes to the exclusion of others; emphasizing or prioritizing a specific thing or group; (noun) something that is at the center or core of a specific thing or system

ANSWERS: 138. minimal, 139. process, 140. strand, 141. intent, 142. succeed, 143. biology, 144. rough, 145. synthetic, 146. centric

147. ev_____on theory *n.* a gradual process of transformation of living things
148. in___t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
149. the ha_____rk of modern life *n.* a distinctive characteristic or attribute of a person or thing
150. at___c nucleus *adj.* of or relating to atom (= the smallest component of an element)
151. or_____i paper *n.* the Japanese art or practice of folding paper into decorative shapes and figures
152. bio_____le structure *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
153. a glass t___e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
154. sc___e the birds away *v.* to frighten a person or animal, or to become frightened
155. 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
156. re___l a plan *v.* to make known or disclose something that was previously hidden, secret, or unknown; to unveil or show something that was concealed or not visible

ANSWERS: 147. evolution, 148. infect, 149. hallmark, 150. atomic, 151. origami, 152. biomolecule, 153. tube, 154. scare, 155. bind, 156. reveal

157. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
158. ci_____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
159. che_____ard frame *n.* a board having 64 squares of two alternating black and white colors used for playing draughts, also known as checker
160. sc__e off her attacker by screaming *v.* to frighten a person or animal, or to become frightened
161. a bull wh__e *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
162. a lily b__b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
163. aff_____le solution *adj.* not expensive and able to pay
164. militant ze__t *n.* a person who has extreme opinions about something, especially religion or politics
165. b__p up prices *v.* to hit or knock against something hard, often with a dull sound; to meet with by accident

ANSWERS: 157. metabolism, 158. circuit, 159. checkerboard, 160. scare, 161. whale, 162. bulb, 163. affordable, 164. zealot, 165. bump

166. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
167. film re_____on *n.* a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment
168. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
169. bring my la___p *n.* a portable computer that is small enough to be carried around easily and used on your lap
170. mu_____on of DNA *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
171. ro__h and tough *adj.* not quite exact or correct; having or caused by an irregular surface
172. 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
173. 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
174. a handy ga___t *n.* a small tool or device that is useful for a particular job

ANSWERS: 166. carbon, 167. rendition, 168. metabolism, 169. laptop, 170. mutation, 171. rough, 172. basis, 173. intent, 174. gadget

175. 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.
176. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
177. trigger a re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
178. an und_____ng cause of an accident *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
179. pr_____ng start *adj.* having the potential to be successful, helpful, or beneficial; showing signs of future success or achievement
180. af__x a seal to a document *v.* to attach or add something to something else
181. tr_____on cubic feet *n.* the number 1,000,000,000,000; a million million
182. June br__e *n.* a woman on her wedding day; a woman who is about to be married or has recently been married
183. key co_____nt *n.* one of several parts that combines with others to form something bigger
184. emergency la_____g *n.* the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest

ANSWERS: 175. gene, 176. aid, 177. reaction, 178. underlying, 179. promising, 180. affix, 181. trillion, 182. bride, 183. component, 184. landing

185. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
186. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
187. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
188. a pa_____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
189. the ha_____rk of a good scientist *n.* a distinctive characteristic or attribute of a person or thing
190. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
191. an u____y sound *adj.* unattractive in appearance; unpleasant to look at
192. con_____ng biochemical explanation *adj.* able to make someone believe that something is true
193. paleolithic ar_____cts *n.* a person-made object, especially one of historical or cultural interest
194. ve_____l hernia *adj.* relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
195. uns_____ed proposal *adj.* given or sent without being requested or asked for; not invited or desired
196. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 185. definition, 186. technique, 187. dimension, 188. parallel, 189. hallmark, 190. nanoscale, 191. ugly, 192. convincing, 193. artifact, 194. ventral, 195. unsolicited, 196. stick

197. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
198. syn_____er bass *n.* an electronic musical instrument that generates audio signals and is used to create a wide range of sounds, from imitations of traditional instruments to entirely new sounds
199. time-saving ga___t *n.* a small tool or device that is useful for a particular job
200. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
201. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
202. a geometric pr__f *n.* a fact or piece of information that shows something is true or exists
203. tr_____te the emotion to a movement *v.* to convert or change words into another language
204. kiss on the fo_____ad *n.* the part of the face above the eyebrows and below the hairline; the upper part of the face that extends from the eyes to the hairline
205. pu__h out numbers *v.* to strike someone or something with one's fist; to make a hole in something
206. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes

ANSWERS: 197. nanoscale, 198. synthesizer, 199. gadget, 200. software, 201. hop, 202. proof, 203. translate, 204. forehead, 205. punch, 206. genetic

207. mic_____isms in his gut *n.* a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope
208. sewing ne___e *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
209. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
210. positive feedback l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
211. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
212. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
213. ar___e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
214. st_____ed travelers *adj.* left in a difficult or helpless position without access to help or resources; unable to move or proceed

ANSWERS: 207. microorganism, 208. needle, 209. progression, 210. loop, 211. computation, 212. indicate, 213. argue, 214. stranded

215. thin-and-light la___p *n.* a portable computer that is small enough to be carried around easily and used on your lap
216. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
217. entirely an_____us *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way
218. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
219. s__d money *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
220. ar__e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
221. ri__d rules *adj.* extremely strict and difficult to change or adapt; incapable of or resistant to bending
222. 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
223. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
224. snatch victory from the j_ws of defeat *n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information

ANSWERS: 215. laptop, 216. definition, 217. analogous, 218. motor, 219. seed, 220. argue, 221. rigid, 222. protein, 223. colleague, 224. jaw

225. mi_____l effort *adj.* tiny in amount; the least possible
226. exp_____al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
227. as_____ly hall *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
228. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
229. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
230. ex_____e a double play *v.* to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.
231. as_____le your colleagues *v.* to collect in one place as a single group
232. ex_____e a bold strategy *v.* to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.
233. a Royal Pr_____ss *n.* the daughter of a monarch; the wife or widow of a prince; woman or girl considered to be particularly good or admirable
234. mu_____ex telegraphy *n.* a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements

ANSWERS: 225. minimal, 226. exponential, 227. assembly, 228. reaction, 229. biology, 230. execute, 231. assemble, 232. execute, 233. princess, 234. multiplex

235. rec_____ate a speech *v.* to summarize or repeat the main points of something
236. ele_____try element *n.* the branch of physical chemistry concerned with the relations between electrical and chemical phenomena
237. n__b with cold *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
238. pu__h a ticket *v.* to strike someone or something with one's fist; to make a hole in something
239. become full of sen_____ty *n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others
240. in_____ne wall *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
241. vig_____ly shake *adv.* in a way that is very energetic and enthusiastic
242. am_____y the effect *v.* to enhance something, particularly sound or brightness
243. binary rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
244. crown pr_____ss *n.* the daughter of a monarch; the wife or widow of a prince; woman or girl considered to be particularly good or admirable

ANSWERS: 235. recapitulate, 236. electrochemistry, 237. numb, 238. punch, 239. sensitivity, 240. intestine, 241. vigorously, 242. amplify, 243. representation, 244. princess

245. ha___ed the incident *v.* to deal with a situation, problem, or strong emotion
246. honor gr____te *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
247. 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
248. as____le a jigsaw puzzle *v.* to collect in one place as a single group
249. a com____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
250. his research area of
con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
251. 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
252. f__p a coin *v.* to turn over into a different position quickly; to throw or toss with a light motion
253. al____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
254. aff____le housing *adj.* not expensive and able to pay

ANSWERS: 245. handle, 246. graduate, 247. bind, 248. assemble, 249. complicated, 250. concentration, 251. template, 252. flip, 253. algorithm, 254. affordable

255. the qu__t for truth *n.* a long or challenging search for something
256. a military be____g *n.* the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
257. co____e a biography *v.* to create a book, a list, a report, etc., by combining various objects, articles, music, etc.
258. concrete gi____rs *n.* a large, horizontal, and structural beam, typically made of steel or concrete, that is used to support and reinforce a bridge, building, or other construction by providing strength and stability
259. third-generation des____nt *n.* children or offspring of a specific person, plant, or animal
260. el____t design *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
261. religious ze____t *n.* a person who has extreme opinions about something, especially religion or politics
262. af__x a label *v.* to attach or add something to something else
263. new and com____ng evidence *adj.* arousing strong and irresistible interest, attention, or admiration
264. a n__t piece of work *adj.* clean or tidy, with everything in its place

ANSWERS: 255. quest, 256. bearing, 257. compile, 258. girder, 259. descendant, 260. elegant, 261. zealot, 262. affix, 263. compelling, 264. neat

265. na____be technology *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
266. plastic d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
267. a capillary t__e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
268. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
269. an_____us fashion *adj.* similar or equivalent in some respects, typically as a result of functioning in a similar way
270. visual me____or *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
271. orthogonal re_____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
272. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.

ANSWERS: 265. nanotube, 266. doll, 267. tube, 268. microscope, 269. analogous, 270. metaphor, 271. rectangle, 272. concentration

273. st__y situation *adj.* made of or covered with an adhesive substance; hot or warm and humid
274. on a qu__t for happiness *n.* a long or challenging search for something
275. n__t idea *adj.* clean or tidy, with everything in its place
276. a s__d coat *n.* a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant
277. rep_____ion system *n.* the process by which organisms create offspring; the production of something similar to an original work
278. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
279. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
280. vi___l navigation *adj.* relating to seeing or sight
281. call fo__h demand *adv.* forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open
282. j_w muscle *n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information
283. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 273. sticky, 274. quest, 275. neat, 276. seed, 277. reproduction, 278. bunch, 279. zoom, 280. visual, 281. forth, 282. jaw, 283. bacteria

284. an und_____ng motive *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
285. uns_____ed email *adj.* given or sent without being requested or asked for; not invited or desired
286. a strain of vi__s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
287. n__m of action *n.* something that is regarded as usual, typical, or standard
288. fl___y hat *adj.* not stiff or firm; hanging loosely
289. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
290. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
291. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
292. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
293. su_____d academically *v.* to accomplish or achieve a desired or intended result or goal; to prosper or attain success in a given field or endeavor
294. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 284. underlying, 285. unsolicited, 286. virus, 287. norm, 288. floppy, 289. complicated, 290. motor, 291. genome, 292. amazing, 293. succeed, 294. carbon

295. pe____ar way *adj.* odd and uncommon, sometimes in an unpleasant way
296. 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
297. technology-or____ed *adj.* referring to someone or something that is focused or directed toward a particular goal or objective; organized around a specific principle or approach
298. 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.
299. a cr__y scheme *adj.* stupid or not sensible; very angry
300. 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
301. sy____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring
302. f__p over the pork chop *v.* to turn over into a different position quickly; to throw or toss with a light motion
303. ind____al freedom *n.* a single person or thing, as distinct from a group

ANSWERS: 295. peculiar, 296. develop, 297. oriented, 298. gene, 299. crazy, 300. protein, 301. synthetic, 302. flip, 303. individual

304. gr____te degree program *n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree
305. dog le__h *n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
306. syn_____ze information *v.* to combine a substance to make a more complex product or compound
307. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
308. trading in bi____y options *n.* a system of numbers that uses only two digits, 0 and 1
309. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
310. rag d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
311. cost of solar pa__ls *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
312. 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

ANSWERS: 304. graduate, 305. leash, 306. synthesize, 307. component, 308. binary, 309. involve, 310. doll, 311. panel, 312. basis

313. a w__t of summons *n.* a written legal order or command
314. for spe_____lly American customers *adv.* only associated with or meant for one thing
315. tell a com_____ng story *adj.* arousing strong and irresistible interest, attention, or admiration
316. ele_____try device *n.* the branch of physical chemistry concerned with the relations between electrical and chemical phenomena
317. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
318. as_____ly line *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
319. ele_____cs industry *n.* the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems
320. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
321. financially st_____ed *adj.* left in a difficult or helpless position without access to help or resources; unable to move or proceed
322. ve_____l fin *adj.* relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
323. ha___e a precious object *v.* to deal with a situation, problem, or strong emotion

ANSWERS: 313. writ, 314. specifically, 315. compelling, 316. electrochemistry, 317. progression, 318. assembly, 319. electronics, 320. diverse, 321. stranded, 322. ventral, 323. handle

324. or____i art

n. the Japanese art or practice of folding paper into decorative shapes and figures

ANSWERS: 324. origami

Session 3: Fill in the Blanks

1. The company specializes in both hardware and _____.
n. a set of computer programs and associated documentation and data for doing particular computational jobs
2. I used an optical _____ to observe the small organisms in the water sample.
n. an instrument used to see objects or substances that are too small to be seen with the naked eye
3. I love making _____ cranes during my free time.
n. the Japanese art or practice of folding paper into decorative shapes and figures
4. I need to finish this report by tonight, so I'll be working on my _____ all day.
n. a portable computer that is small enough to be carried around easily and used on your lap
5. Make sure to put the _____ on your dog before walking.
n. a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
6. I hope to _____ in my career and live a happy life.
v. to accomplish or achieve a desired or intended result or goal; to prosper or attain success in a given field or endeavor
7. 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

ANSWERS: 1. software, 2. microscope, 3. origami, 4. laptop, 5. leash, 6. succeed, 7. recapitulated

8. 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
9. She _____ a stamp to the letter before mailing it.
- v.* to attach or add something to something else
10. This community is free of social _____.
- n.* a thought or feeling that is unfair and makes no sense, mainly when it is formed without enough thought or knowledge
11. Parallel lines are, by _____ lines on the same plane that never cross.
- n.* a concise explanation of the meaning of a word, phrase, or symbol
12. The singer gave a beautiful _____ of the classic song during the concert.
- n.* a performance or interpretation, often of a piece of music or artwork; a version or translation of something into another language or style; the act of surrendering someone to another country for interrogation or punishment
13. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
14. The rabbit _____ over the fence.
- v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
15. Many employers hire _____ trainees to train as managers.
- n.* a person who has a first degree from university or college; (verb) to complete the first course of university or college and get a degree

ANSWERS: 8. template, 9. affixed, 10. prejudice, 11. definition, 12. rendition, 13. algorithm, 14. hopped, 15. graduate

16. The golfer recorded an _____ distance.

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

17. The acupuncturist inserted _____ into specific points on my body to alleviate my pain.

n. a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

18. New York is a city with a _____ ethnic population.

adj. including numerous categories of individuals or entities; various

19. 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

20. 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

21. Children often _____ parents with this head cold.

v. to affect a person, an animal, or a plant with a disease-causing organism

22. This company's _____ plant is an enormous facility.

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

23. This _____ is a producer of respiratory disease.

n. a very small living thing that may exist in its single-celled form or as a colony of cells and is too small to be seen without a microscope

ANSWERS: 16. amazing, 17. needles, 18. diverse, 19. protein, 20. complexity, 21. infect, 22. assembly, 23. microorganism

24. Carbon _____ are used in various fields of science and technology due to their unique properties.
- n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
25. 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
26. 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
27. The living room had a _____ coffee table in the center of it.
- n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
28. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
- adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
29. You might need to _____ this point.
- v.* to enhance something, particularly sound or brightness
30. One bad apple spoils the whole _____.
- n.* a grouping of several similar things which are growing or fastened together
31. Many people in this city use the _____ railway for transportation.
- n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

ANSWERS: 24. nanotubes, 25. bind, 26. genome, 27. rectangle-shaped, 28. nanoscale, 29. amplify, 30. bunch, 31. loop

32. The electronic _____ created a range of unique sounds for the music.
n. an electronic musical instrument that generates audio signals and is used to create a wide range of sounds, from imitations of traditional instruments to entirely new sounds
33. The recent presidential elections caused a great deal of excitement among political _____.
n. a person who has extreme opinions about something, especially religion or politics
34. This ad campaign is aimed _____ at young women.
adv. only associated with or meant for one thing
35. The athlete had sweat dripping down her _____ after the intense workout.
n. the part of the face above the eyebrows and below the hairline; the upper part of the face that extends from the eyes to the hairline
36. The museum has a vast collection of Greek _____.
n. a person-made object, especially one of historical or cultural interest
37. This exam requires excellent _____ to pass.
n. the ability to focus all your time and energy on one thing without thinking about anything else.
38. The mafioso who collaborated with the police was _____.
v. to kill someone, especially as a legal punishment; to carry out or perform an action, duty, etc.
39. He was unpopular because of his _____ adherence to the rules.
adj. extremely strict and difficult to change or adapt; incapable of or resistant to bending

ANSWERS: 32. synthesizer, 33. zealots, 34. specifically, 35. forehead, 36. artifacts, 37. concentration, 38. executed, 39. rigid

40. _____ the text from Italian into English.
v. to convert or change words into another language
41. These infections have the potential to impact practically every _____ system.
n. a part of the body of an animal or plant that has a particular purpose and performs a specific job
42. He _____ back in time to the soccer game.
v. to move along very quickly; (noun) the act of rising upward into the air
43. He _____ the wall in anger.
v. to strike someone or something with one's fist; to make a hole in something
44. Carbon has an _____ mass of 12.
adj. of or relating to atom (= the smallest component of an element)
45. _____ diamonds play an essential role as machine tool blades.
adj. made by combining chemical substances as opposed to being naturally occurring
46. The pilot had to adjust the plane's _____ to stay on course.
n. the way in which one comports oneself; a posture or stance, especially one indicative of confidence or authority; the horizontal direction or position of a place, object, or person relative to another
47. I found the kitchen _____ that will serve as a bottle opener in the store.
n. a small tool or device that is useful for a particular job
48. A clear and simple expression is the _____ of good writing.
n. a distinctive characteristic or attribute of a person or thing

ANSWERS: 40. Translate, 41. organ, 42. zoomed, 43. punched, 44. atomic, 45. Synthetic, 46. bearing, 47. gadget, 48. hallmark

49. _____ is better than argument.

n. a fact or piece of information that shows something is true or exists

50. The product is still in the _____ stage.

adj. relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have

51. I pushed _____ with my new project, even though it would take much hard work.

adv. forward, outward, or onward in location, direction, or progress; into view or consideration; with confidence, boldness, or in the open

52. They are planning to _____ the house after the fire.

v. to build again or anew

53. _____ panels have greatly improved not only in performance but also in durability.

adj. of, from, or relating to the sun

54. The _____ train was packed with commuters during rush hour.

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

55. He planted the _____ in the soil and waited for it to sprout.

n. a small, hard, often round, a reproductive structure that contains a plant's genetic material and is capable of growing into a new plant

56. This historic city is famous for its _____ streets.

n. a board having 64 squares of two alternating black and white colors used for playing draughts, also known as checker

ANSWERS: 49. Proof, 50. experimental, 51. forth, 52. rebuild, 53. Solar, 54. tube, 55. seed, 56. checkerboard

57. The prince fell in love with the _____ and asked her to marry him.
n. the daughter of a monarch; the wife or widow of a prince; woman or girl considered to be particularly good or admirable
58. The building makes a remarkable _____ impact.
adj. relating to seeing or sight
59. 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
60. A peculiar _____ material coated the foliage.
adj. made of or covered with an adhesive substance; hot or warm and humid
61. She tried to _____ the layout of the new house in her mind.
v. to form a mental image or concept of something; to make something visible
62. The president began to _____ an army.
v. to collect in one place as a single group
63. He walked a road _____ to the railroad.
adj. being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
64. Since the 1990s, the Internet has continued to experience _____ growth.
adj. becoming more and more rapid; of or involving mathematical exponents
65. Better sleep leads to increased _____.
n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

ANSWERS: 57. princess, 58. visual, 59. genetic, 60. sticky, 61. visualize, 62. assemble, 63. parallel, 64. exponential, 65. metabolism

66. 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

67. _____ dropping wears away the stone.

adj. happening repeatedly or all the time

68. The light _____ has burned out.

n. a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

69. 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

70. 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.

71. The process was carried out at _____ cost.

adj. tiny in amount; the least possible

72. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.

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

73. The DNA molecule is shaped like a double _____.

n. a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule

ANSWERS: 66. component, 67. Constant, 68. bulb, 69. complicated, 70. gene, 71. minimal, 72. computation, 73. helix

74. After their car broke down, the family was _____ on the side of the highway for hours.
- adj.* left in a difficult or helpless position without access to help or resources; unable to move or proceed
75. The teacher is very _____ to children's feelings.
- adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
76. Radiation often promotes genetic _____ in plants and animals.
- n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
77. 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
78. You _____ a bill in the change machine, and the coins pop out.
- v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
79. Overall _____ are approximately 400x200mm.
- n.* a measurable extent of a particular kind, such as width, height, or length
80. The company received _____ feedback from a customer about their product.
- adj.* given or sent without being requested or asked for; not invited or desired

ANSWERS: 74. stranded, 75. sensitive, 76. mutations, 77. process, 78. stick, 79. dimensions, 80. unsolicited

81. The _____ of the plant depends on the pollinators.
n. the process by which organisms create offspring; the production of something similar to an original work
82. The antique _____ was worth thousands of dollars.
n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
83. The plane made a rough _____ and everyone clapped once we came to a stop.
n. the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest
84. The software can _____ and decode encrypted messages.
v. to convert information into a code or format suitable for storage or transmission
85. She expressed her thought in an artful choice of _____.
n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
86. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group
87. The rain and thunder are _____ today.
adj. stupid or not sensible; very angry
88. They study the _____ of the universe.
n. a gradual process of transformation of living things

ANSWERS: 81. reproduction, 82. doll, 83. landing, 84. encode, 85. metaphors, 86. individual, 87. crazy, 88. evolution

89. The data _____ that the company's profits have steadily increased over the past quarter.
- v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
90. The construction workers carefully placed the steel _____ onto the building frame.
- n.* a large, horizontal, and structural beam, typically made of steel or concrete, that is used to support and reinforce a bridge, building, or other construction by providing strength and stability
91. The company is very customer-_____ and strives to provide excellent service.
- adj.* referring to someone or something that is focused or directed toward a particular goal or objective; organized around a specific principle or approach
92. My left arm became _____.
- adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
93. _____ 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
94. Pakistan's _____ budget was still being reviewed.
- n.* things sent to help countries in need, notably food or money; support
95. The instrument has a high _____ to temperature changes.
- n.* the ability to perceive or respond to subtle differences or changes; the ability to understand and respond to the needs and feelings of others

ANSWERS: 89. indicates, 90. girder, 91. oriented, 92. numb, 93. Bacteria, 94. aid, 95. sensitivity

96. 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

97. I found her assertion pretty _____.

adj. able to make someone believe that something is true

98. Hydrogen and oxygen _____ to form water.

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

99. She wore an _____ evening gown to the gala.

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

100. I heard several melodic _____ simultaneously.

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

101. That adventurer traveled in _____ of buried treasure.

n. a long or challenging search for something

102. The small _____ is responsible for absorbing most of the nutrients from food.

n. a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

103. Jockey's superior _____ brought him victory.

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

ANSWERS: 96. motors, 97. convincing, 98. combine, 99. elegant, 100. strands, 101. quest, 102. intestine, 103. technique

104. His _____ presentation deeply moved everyone.

adj. arousing strong and irresistible interest, attention, or admiration

105. He was served with a _____ of eviction, giving him the notice to vacate the property.

n. a written legal order or command

106. I am considering what I should do to _____ him.

v. to persuade someone or make someone believe that something is true

107. The couple began to _____ over which restaurant to go to for dinner.

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

108. 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

109. 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

110. The company has made great strides in its _____ toward sustainability.

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

111. There was a chemical _____ of the lime with the groundwater.

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

112. The company specializes in manufacturing and selling cutting-edge _____.

n. the branch of physics and technology that deals with the behavior and control of electrons and the use of electronic devices and systems

ANSWERS: 104. compelling, 105. writ, 106. convince, 107. argue, 108. biology, 109. virus, 110. progression, 111. reaction, 112. electronics

113. 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
114. 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
115. We hit the ground to _____ out the rabbits.
- v.* to frighten a person or animal, or to become frightened
116. A _____ of economic advisers from the United States visited the country to help rebuild its economy.
- n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
117. The _____ side of the fish was beautifully colored.
- adj.* relating to or situated on or toward the belly or underside of an animal or organ; opposite of dorsal
118. _____ 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)
119. I decided to seek counseling on the advice of my _____.
- n.* one of a group of a coworker, especially in a profession or a business

ANSWERS: 113. involves, 114. intent, 115. scare, 116. panel, 117. ventral, 118. Molecular, 119. colleague

120. 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

121. He dropped his ____ at the unexpected sight.

- n.* either of the two bones at the bottom of the face that moves when you open your mouth; (verb) talk socially without exchanging too much information

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

- v.* to modify or recreate a program

123. Several top teams scouted _____ young athletes.

- adj.* having the potential to be successful, helpful, or beneficial; showing signs of future success or achievement

124. The young _____ looked stunning in her wedding gown.

- n.* a woman on her wedding day; a woman who is about to be married or has recently been married

125. Videos documenting the process of creating this pencil _____ have been popular worldwide.

- n.* the pieces of art, such as pictures and photographs used in books, magazines, etc.

126. He had a special _____ for public relations

- n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects

127. The hotel's customer-_____ approach always puts the needs and satisfaction of guests first.

- adj.* tending towards or focused on a particular center, point, or perspective, sometimes to the exclusion of others; emphasizing or prioritizing a specific thing or group; (noun) something that is at the center or core of a specific thing or system

ANSWERS: 120. molecule, 121. jaw, 122. reprogrammed, 123. promising, 124. bride,

125. artwork, 126. antenna, 127. centric

128. We all should learn how to _____ stress.

v. to deal with a situation, problem, or strong emotion

129. The vehicle bounced along the _____ mountain road.

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

130. She accidentally _____ into him in the crowded room.

v. to hit or knock against something hard, often with a dull sound; to meet with by accident

131. I tried to _____ the efficiency of the investment.

v. to make a mathematical calculation

132. Some countries have a culture of eating the flesh of a _____.

n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

133. The juice has a _____ taste.

adj. odd and uncommon, sometimes in an unpleasant way

134. Trees absorb _____ dioxide and give off oxygen.

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

135. He _____ when he heard that he had been accepted into the university.

v. to turn over into a different position quickly; to throw or toss with a light motion

136. The _____ principle of every business was identical.

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

ANSWERS: 128. handle, 129. rough, 130. bumped, 131. compute, 132. whale, 133. peculiar, 134. carbon, 135. flipped, 136. underlying

137. Those warriors' _____ are still skilled archers.

n. children or offspring of a specific person, plant, or animal

138. 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

139. The detective carefully _____ the true identity of the murderer.

v. to make known or disclose something that was previously hidden, secret, or unknown; to unveil or show something that was concealed or not visible

140. The automaker has been providing _____ car financing options since last year.

adj. not expensive and able to pay

141. The puppy's ears were still too long and _____ for its head.

adj. not stiff or firm; hanging loosely

142. The new _____ cinema has 12 screens showing the latest movies.

n. a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements

143. Many electric vehicle companies now employ _____ capacitors for circuits.

n. the branch of physical chemistry concerned with the relations between electrical and chemical phenomena

ANSWERS: 137. descendants, 138. function, 139. revealed, 140. affordable, 141. floppy, 142. multiplex, 143. electrochemistry

144. The organization assisted in the de-escalation of _____ violent situations.

adv. in a possible state or condition; possibly

145. The detective discovered that the witness had _____ her story about the crime.

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

146. A person who has been declared incompetent should have legal _____.

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

147. We are attempting to _____ a list of qualified candidates for the position.

v. to create a book, a list, a report, etc., by combining various objects, articles, music, etc.

148. 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

149. A _____ star is a system in which two stars revolve around each other.

n. a system of numbers that uses only two digits, 0 and 1

150. One light year is nearly 6 _____ miles.

n. the number 1,000,000,000,000; a million million

ANSWERS: 144. potentially, 145. fabricated, 146. representation, 147. compile, 148. develop, 149. binary, 150. trillion

151. The human heart is _____ to a pump in a plumbing system.

adj. similar or equivalent in some respects, typically as a result of functioning in a similar way

152. The spider can _____ multiple different silk proteins.

v. to combine a substance to make a more complex product or compound

153. She has _____ habits.

adj. clean or tidy, with everything in its place

154. An intelligent battery has a voltage monitoring _____.

n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area

155. Rice and beans are a _____ food in many cultures.

adj. essential, crucial, or regularly used

156. The _____ truth was that he had been lying to her for months.

adj. unattractive in appearance; unpleasant to look at

157. It would be _____ to dress nicely for the wedding.

adj. suitable or proper in the circumstances; fitting

158. The organizational _____ of start-ups is often flat and straightforward.

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

159. The systems we have developed has accepted as industry _____.

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

ANSWERS: 151. analogous, 152. synthesize, 153. neat, 154. circuit, 155. staple, 156. ugly, 157. appropriate, 158. structure, 159. norms

160. 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

161. DNA is a complex _____ that contains the genetic information of an organism.

- n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

162. He _____ scrubbed the stains on the shirt.

- adv.* in a way that is very energetic and enthusiastic

ANSWERS: 160. basis, 161. biomolecule, 162. vigorously