

# Englist.me



## Vocabulary Builder Reference from...

*Karl Skjonnemand: The self-assembling computer chips of the future | TED Talk*

[https://www.ted.com/talks/karl\\_skjonnemand\\_the\\_self\\_assembling\\_computer\\_chips\\_of\\_the\\_future](https://www.ted.com/talks/karl_skjonnemand_the_self_assembling_computer_chips_of_the_future)

### All Words

#### IMPORTANT

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## Session 1: Word List

### wrist

*n.* the joint between the hand and the forearm; the narrow part of the hand near this joint

*synonym* : carpus

(1) **wrist** bones, (2) glance at my **wrist** watch  
He sprained his **wrist** while playing basketball.

### implant

*v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

*synonym* : insert, fix, place

(1) **implant** genes in the animals, (2) **implant** into the uterus  
The doctor will **implant** a pacemaker to regulate his heart rate.

### miniature

*adj.* being on a very small scale

*synonym* : mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

### transistor

*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

*synonym* : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

## 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**.

## achieve

*v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

*synonym*: accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

## 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.

## breakthrough

*n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

*synonym*: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in AI.

## engineer

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

*synonym*: architect, creator, builder

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

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

## invest

*v.* to put money, effort, time, etc. into something to make a profit or achieve a result

*synonym*: fund, sponsor, support

(1) **invest** in stocks, (2) **invest** capital

The government should view children as national assets and actively **invest** in them.

## vast

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

*synonym*: expansive, extended, boundless

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

A **vast** audience viewed the broadcast.

## 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.

## digital

*adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

*synonym*: numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

## revolution

*n.* a large-scale attempt to overthrow the government of a country, often using violence or war;

*synonym*: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political

**revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

## roadblock

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

*synonym* : obstacle, barrier, blockade

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

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

## innovation

*n.* the creation of a new device or process resulting from study and experimentation

*synonym* : invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

## 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**.

## relentless

*adj.* persistent and determined; continuing despite difficulties or setbacks

*synonym* : unyielding, tireless, unremitting

(1) **relentless** attack, (2) face **relentless** pressure

The athlete's **relentless** training paid off in the end.

## intelligence

*n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

*synonym* : brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

## device

*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

*synonym* : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

## regularly

*adv.* at regular intervals or times

*synonym* : repeatedly, routinely, usually

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

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

## facial

*adj.* of or relating to a person's face

*synonym* : forward, front, surface

(1) **facial** nerve, (2) **facial** expressions

**Facial** profiling is a new form of airport security.

## recognition

*n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal

*synonym* : acknowledgement, identification, credit

(1) **recognition** award, (2) joint **recognition**

He was given **recognition** for his outstanding work in the field of medicine.

## augment

*v.* to increase the size, extent, quantity, etc. of something by adding something to it

*synonym* : boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

## treacherous

*adj.* that cannot be trusted; malicious; hazardous, even while seeming safe

*synonym* : dangerous, unfaithful, disloyal

(1) **treacherous** territory, (2) **treacherous** act

Due to snow and ice, many roads have become **treacherous**, and motorists are advised to travel gently.

## chaotic

*adj.* without any order or organization; extremely disorganized, unpredictable, and confusing

*synonym*: disorderly, cluttered, topsy-turvy

(1) the **chaotic** economic situation, (2) **chaotic** theory  
Change is also occurring in Turkey as a result of **chaotic** reform.

## 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.

## appetite

*n.* a natural desire or craving for food or drink; a strong desire or liking for something

*synonym*: hunger, appetite, craving

(1) **appetite** suppression, (2) loss of **appetite**  
After a long hike, I had a huge **appetite** and devoured my meal in minutes.

## hardware

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

*synonym*: gear, apparatus, gadget

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

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

## frustration

*n.* the feeling of being upset or annoyed as a result of being unable to change or achieve something

*synonym*: disappointment, discouragement, dissatisfaction

(1) **frustration** level, (2) express **frustration**

He felt a deep **frustration** as he realized the project would not be completed on time.

## smartphone

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

(1) **smartphone** app developer, (2) **smartphone** addict  
Internet traffic volumes have increased significantly with the advent of **smartphones**.

## tablet

*n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine

*synonym*: notepad, pill, medication

(1) a multivitamin **tablet**, (2) **tablet** keyboard

The new **tablet** device has a faster processor and better graphics than its predecessor.

## grind

*v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

*synonym*: mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh cup.

## halt

*v.* to bring or come to a stop; to force to stop moving or operating

*synonym*: stop, cease, terminate

(1) **halt** production, (2) **halt** progress

The train came to a **halt** at the station.

## feat

*n.* a notable or impressive achievement, especially one that requires great skill or bravery

*synonym*: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest

mountain in the world.

## semiconductor

*n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

*synonym* : chip, wafer

(1) **semiconductor** industry, (2) **semiconductor** device  
The company develops and sells **semiconductor** memory for use in computers and servers.

## industrious

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

*synonym* : diligent, hardworking, assiduous

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

## creative

*adj.* relating to or involving the use of skill and original and unusual ideas to create something

*synonym* : imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit  
All the supervisor has to do is assign tasks that make his subordinates more **creative**.

## quantum

*n.* the smallest amount or unit of something, especially (electromagnetic) energy

(1) probabilistic **quantum** theory, (2) laws of **quantum** mechanics  
Big techs are now eager to develop **quantum** computers.

## alternative

*n.* one of two or more available possibilities or choice

*synonym* : choice, option

(1) an **alternative** plan, (2) there is no other **alternative**  
Doctors are gradually coming around to the idea of using **alternative** medicines.



## architecture

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

*synonym*: design, structure, layout

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

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

## neural

*adj.* of or relating to a nerve or the nervous system that includes the brain

*synonym*: sensory, neuronic, nervous

(1) **neural** stem cells, (2) **neural** networks in AI

There was a disturbance of **neural** function.

## robust

*adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

*synonym*: healthy, strong, booming

(1) **robust** growth, (2) a **robust** appetite

The experiment yielded **robust** results that support his theory.

## efficient

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

*synonym*: productive, effective, competent

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

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

## immediate

*adj.* happening or done without delay or occurring shortly after something else

*synonym*: prompt, quick, instantaneous

(1) take **immediate** effect, (2) the **immediate** past

Both forts were subject to **immediate** attacks.

## 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.

## manufacture

*v.* to make goods in large numbers, usually in a factory using machines

*synonym*: create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

## 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.

## bulky

*adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy

*synonym*: large, cumbersome, unwieldy

(1) **bulky** material, (2) **bulky** packaging

The **bulky** furniture made it difficult to move around the small room.

## invention

*n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

*synonym*: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

## integrate

*v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

*synonym*: mix, merge, combine

(1) **integrate** into the existing system, (2) **integrate** both businesses

He found that it is difficult to **integrate** socially.

## purity

*n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature

*synonym*: sinlessness, innocence, cleanliness

(1) the degree of **purity**, (2) high **purity**

Higher **purity** requires additional equipment and energy.

## crystalline

*adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure

*synonym*: crystallized, clear, transparent

(1) **crystalline** structure, (2) **crystalline** water

The geologist found a beautiful specimen of a **crystalline** mineral.

## silicon

*n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

**Silicon** is the second most abundant element on earth after oxygen.

## wafer

*n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

*synonym*: thin cake, biscuit, disk

(1) strawberry **wafer**, (2) **wafer** cleaning system

The solar panel uses high-quality silicon **wafers** to convert sunlight into electricity efficiently.

## continuous

*adj.* occurring or existing without a pause or interruption

*synonym*: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

## 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.

## 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.

## perspective

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

*synonym*: viewpoint, standpoint, outlook

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

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

## micron

*n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

*synonym*: micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

## essentially

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

*synonym*: fundamentally, basically, virtually

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

## invisible

*adj.* impossible or nearly impossible to see

*synonym*: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars

The phenomenon is **invisible** at optical wavelengths.

## comparison

*n.* the consideration or examination of the similarities between two or more people or things

*synonym*: equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

## fraction

*n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

*synonym*: piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a **fraction**

He spent only a **fraction** of his earnings.

## incredible

*adj.* unbelievable; enormous

*synonym*: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

## obvious

*adj.* easy to see, discover or understand

*synonym*: apparent, conspicuous, evident

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

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

## chip

*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

*synonym*: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**  
We can use this campaign as a bargaining **chip** in the negotiations.

## combination

*n.* a collection of things that have been combined; an assemblage of separate parts or qualities  
*synonym*: blend, hybrid, compounding

(1) genic **combinations**, (2) **combination** number  
The **combination** to the safe was a secret.

## efficiency

*n.* the state or quality of doing something well with no waste of input such as time or money  
*synonym*: effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**  
Our company must continue to strive for greater **efficiency**.

## electron

*n.* a tiny particle with the negative electrical charge  
*synonym*: negatron

(1) flow of **electrons**, (2) beam of **electrons**  
The outermost **electron** shell determines the chemical properties of an atom.

## oversimplify

*v.* to describe or explain something in a way that is too simple and no longer holds true

(1) **oversimplify** the problem, (2) **oversimplify** a complex reality

People may **oversimplify** natural phenomena due to the improved accessibility of knowledge.

## 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.

## etch

*v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

*synonym*: engrave, inscribe, carve

(1) **etch** a metal plate, (2) **etch** a design into wood

He used a sharp tool to **etch** his initials onto the metal.

## 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.

## dramatically

*adv.* in a very impressive manner

*synonym*: greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

## improvisation

*n.* the act of making something up on the spot or creating or performing something without preparation

*synonym*: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

## 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.

## viable

*adj.* capable of being done as intended; able to succeed

*synonym*: feasible, possible, attainable

(1) achieve a **viable** relationship, (2) develop a **viable** therapy

Male gorillas with good drumming skills are more **viable**.

## 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.

## mimic

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

*synonym*: mirror, imitate, ape

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

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

## conventional

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

*synonym*: ancestral, customary, established

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

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

## 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.

## array

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

*synonym*: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops



The customer on the Internet has to choose one from a formidable **array** of products.

## periodic

*adj.* happening at regular intervals over a while

*synonym* : regular, frequent, recurring

(1) the **periodic** blooming of the cherry-blossom,

(2) **periodic** payments

Astronomers are examining whether the **periodic** signals emanating from this star are artificial.

## advantage

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

*synonym* : benefit, edge, asset

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

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

## 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.

## naturally

*adv.* as might be expected; by natural manners

*synonym* : by nature, inherently, intrinsically

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

He was **naturally** gifted.

## lipid

*n.* any of a group of organic compounds, including fats, oils, and waxes, that are insoluble in water but soluble in organic solvents and are essential constituents of living cells

*synonym* : fat, oil, phospholipid

(1) **lipid** metabolism, (2) blood **lipid** profile

Omega-3 fatty acids, found in foods like fish and nuts, are a type of **lipid** that is good for heart health.

## membrane

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

*synonym*: tissue layer

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

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

## 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.

## polymer

*n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

## consist

*v.* to be composed or made up of

*synonym*: lie in, comprise, exist

(1) **consist** mainly of cells, (2) **consist** only in knowing facts

This examination **consists** of five problems to solve.

## chain

*n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

*synonym*: series, string, link

(1) **chain** reaction, (2) supply **chain**

The **chain** on my bike broke, leaving me stranded.

## repel

*v.* to force an attack or attacker to withdraw or retreat

*synonym*: turn away, fight off, force back

(1) **repel** bandits, (2) **repel** bad luck

This material can **repel** moisture swiftly.

## cruel

*adj.* feeling or showing pleasure in causing pain or suffering to others

*synonym* : heartless, sadistic, vicious

(1) a **cruel** and unusual punishment, (2) **cruel** joke

The dictator was known for his **cruel** and oppressive regime.

## bond

*n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

*synonym* : bind, adhesion, attachment

(1) **bond** as a family, (2) global **bond** market

They had formed a friendship **bond**.

## built-in

*adj.* included as an integral part of something

*synonym* : integrated, inherent, equipped

(1) **built-in** feature, (2) **built-in** battery

The new car had a **built-in** navigation system.

## separate

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

*synonym* : disunite, isolate, ramify

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

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

## bulk

*n.* the quantity or size of something that is very large; the main part of something

*synonym* : majority, largeness, amount

(1) buy in **bulk**, (2) **bulk** data transfer

I received a parcel of great **bulk**.

## 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.

## 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.

## opposing

*adj.* competing, fighting, or working against each other

*synonym*: disagreeing, dissenting, conflicting

(1) **opposing** counsel, (2) in an **opposing** direction

We have no intention of **opposing** his idea.

## squirm

v. to twist, wiggle, or contort the body uncomfortably or awkwardly, often due to embarrassment, discomfort, or nervousness

*synonym*: squiggle, wiggle, writhe

(1) **squirm** uncomfortably, (2) **squirm** with excitement

The child **squirmed** out of his mother's grasp and ran off.

## symmetrical

*adj.* having similarity in size, shape, and relative position of corresponding parts

*synonym*: harmonious, balanced, proportional

(1) **symmetrical** triangle, (2) **symmetrical** pattern

This figure is **symmetrical** about the x-axis.

## 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.

## meander

*v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road

*synonym* : wander, zigzag, twist

(1) **meander** down the river, (2) **meander** aimlessly

We decided to **meander** through the park and enjoy the scenery.

## fingerprint

*n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

*synonym* : print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

## distance

*n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

*synonym* : space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

## determinant

*n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

*synonym* : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

## elaborate

*adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts

*synonym* : detailed, intricate, complicated

(1) an **elaborate** hat, (2) **elaborate** Ponzi scheme

He proposed an **elaborate** program of public works.

## asymmetrical

*adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position

*synonym* : uneven, lopsided, crooked

(1) **asymmetrical** design, (2) **asymmetrical** haircut

The **asymmetrical** shape of the vase made it unique and exciting.

## tight

*adj.* fixed, fastened, or kept together firmly or closely

*synonym* : closed, secured, cramped

(1) a **tight** game, (2) student on a **tight** budget

The national election was held amid **tight** security.

## surround

*v.* to be all around something or somebody

*synonym* : encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

## cylinder

*n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

(1) a six- **cylinder** engine, (2) a ventilation **cylinder**

The gas was trapped inside the **cylinders** under high pressure.

## chemistry

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

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

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

## chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

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

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

## relative

*adj.* considered and evaluated through comparison with something else

*synonym* : comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

## anchor

*n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability

*synonym* : mainstay, ballast, backbone

(1) **anchor** bolt, (2) **anchor** weight

The ship dropped **anchor** in the bay.

## 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.

## align

*v.* to put or arrange two or more things in a straight line or to form a straight line

*synonym* : coordinate, regulate, adjust

(1) **align** the economic interest of each other, (2) **align** with a historical trend

Both parties are now entirely ideologically **aligned**.

## 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**.

## defect

*n.* an imperfection, shortcoming, or lack of something or someone

*synonym* : fault, blemish, flaw

(1) visual **defects**, (2) **defects** of character

**Defects** in the design could cause much worse issues.

## extraordinary

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

*synonym*: exceptional, noteworthy, astonishing

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

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

## cleanliness

*n.* the state of being clean or free from dirt, dust, or foreign substances; the practice of maintaining good hygiene and cleanliness

*synonym*: neatness, hygiene, sanitation

(1) **cleanliness** standards, (2) **cleanliness** of the kitchen

We must prioritize our workplace's **cleanliness** for our employees' safety.

## microscopic

*adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

*synonym*: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

## exciting

*adj.* causing a lot of interest or excitement

*synonym*: exhilarating, stimulating, thrilling

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

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

## disrupt

*v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

*synonym*: interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep

I'm so sorry to **disrupt** you when you're pretty busy.



## confidence

*n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

*synonym*: self-trust, certainty, belief

(1) **confidence** as a teacher, (2) boost my **confidence**

Skill and **confidence** are an unconquered army.

## introduction

*n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

*synonym*: initiation, preamble, prologue

(1) **introduction** education, (2) self- **introduction**

The **introduction** to the new class was informative and engaging.

## revolutionary

*adj.* relating to or characterized by a complete or dramatic change

*synonym*: radical, innovative, groundbreaking

(1) **revolutionary** change, (2) enforce **revolutionary** justice

The **revolutionary** leader inspired others to join the fight for freedom and democracy.

## spectacular

*adj.* striking or impressive to look at or in performance or achievement

*synonym*: breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

## expansion

*n.* the process of becoming larger or more extensive, or the result of this process

*synonym*: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

**dawn**

*n.* the time of day when the sun's light starts to show in the sky

*synonym*: daybreak, sunrise, advent

(1) the wan light of **dawn**, (2) crack of **dawn**

Missile assaults on the capital continued around **dawn**.

## Session 2: Spelling

1. a con\_\_\_\_\_us row of warehouses *adj.* occurring or existing without a pause or interruption
2. bu\_\_\_\_\_in feature *adj.* included as an integral part of something
3. po\_\_\_\_\_r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
4. bre\_\_\_\_\_ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
5. crystalline si\_\_\_\_\_n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
6. as\_\_\_\_\_le your colleagues *v.* to collect in one place as a single group
7. he confessed dra\_\_\_\_\_lly *adv.* in a very impressive manner
8. me\_\_\_\_\_r down the river *v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road
9. cle\_\_\_\_\_ss of the kitchen *n.* the state of being clean or free from dirt, dust, or foreign substances; the practice of maintaining good hygiene and cleanliness

ANSWERS: 1. continuous, 2. built-in, 3. polymer, 4. breakthrough, 5. silicon, 6. assemble, 7. dramatically, 8. meander, 9. cleanliness

10. the im\_\_\_\_\_te past *adj.* happening or done without delay or occurring shortly after something else
11. al\_\_n with a historical trend *v.* to put or arrange two or more things in a straight line or to form a straight line
12. mic\_\_\_\_\_ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
13. pa\_\_\_\_\_el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
14. bu\_\_y material *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
15. cry\_\_\_\_\_ne structure *adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
16. ind\_\_\_\_\_us worker *adj.* hardworking, diligent, and persistent in effort
17. a numerator in a fr\_\_\_\_\_on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
18. inc\_\_\_\_\_le amount *adj.* unbelievable; enormous
19. ind\_\_\_\_\_us student *adj.* hardworking, diligent, and persistent in effort
20. wr\_\_t bones *n.* the joint between the hand and the forearm; the narrow part of the hand near this joint

ANSWERS: 10. immediate, 11. align, 12. microscopic, 13. parallel, 14. bulky, 15. crystalline, 16. industrious, 17. fraction, 18. incredible, 19. industrious, 20. wrist

21. achieve a vi\_\_\_e relationship      *adj.* capable of being done as intended; able to succeed
22. li\_\_d metabolism      *n.* any of a group of organic compounds, including fats, oils, and waxes, that are insoluble in water but soluble in organic solvents and are essential constituents of living cells
23. mo\_\_\_\_le behavior      *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
24. biological ro\_\_\_\_ck      *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
25. better fuel eff\_\_\_\_cy      *n.* the state or quality of doing something well with no waste of input such as time or money
26. self-int\_\_\_\_ion      *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
27. rel\_\_\_\_ss attack      *adj.* persistent and determined; continuing despite difficulties or setbacks
28. buy in b\_\_k      *n.* the quantity or size of something that is very large; the main part of something
29. al\_\_n the economic interest of each other      *v.* to put or arrange two or more things in a straight line or to form a straight line

ANSWERS: 21. viable, 22. lipid, 23. molecule, 24. roadblock, 25. efficiency, 26. introduction, 27. relentless, 28. bulk, 29. align

30. so\_\_\_\_\_re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
31. tre\_\_\_\_\_us act *adj.* that cannot be trusted; malicious; hazardous, even while seeming safe
32. me\_\_\_\_\_r aimlessly *v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road
33. the ha\_\_\_\_\_re department *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
34. b\_\_k data transfer *n.* the quantity or size of something that is very large; the main part of something
35. 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
36. cell me\_\_\_\_\_nes *n.* a soft, thin layer that forms animal or vegetable tissue
37. int\_\_\_\_\_ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
38. score an ad\_\_\_\_\_ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

ANSWERS: 30. software, 31. treacherous, 32. meander, 33. hardware, 34. bulk, 35. assembly, 36. membrane, 37. introduction, 38. advantage

39. laws of qu\_\_\_\_\_m mechanics      *n.* the smallest amount or unit of something, especially (electromagnetic) energy
40. in\_\_\_\_t in stocks      *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
41. el\_\_\_\_\_te Ponzi scheme      *adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts
42. flow of el\_\_\_\_\_ons      *n.* a tiny particle with the negative electrical charge
43. a det\_\_\_\_\_nt of crop yields      *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
44. global b\_\_d market      *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
45. sym\_\_\_\_\_al triangle      *adj.* having similarity in size, shape, and relative position of corresponding parts
46. ta\_\_\_\_t keyboard      *n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine
47. de\_\_\_\_ts of character      *n.* an imperfection, shortcoming, or lack of something or someone
48. take ad\_\_\_\_\_ge of his weak points      *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has

ANSWERS: 39. quantum, 40. invest, 41. elaborate, 42. electron, 43. determinant, 44. bond, 45. symmetrical, 46. tablet, 47. defect, 48. advantage

49. become ess\_\_\_\_\_ly same *adv.* relating to the essential features or concepts of anything
50. intellectual f\_\_t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
51. an alt\_\_\_\_\_ve plan *n.* one of two or more available possibilities or choice
52. na\_\_\_\_\_ly arising *adv.* as might be expected; by natural manners
53. ef\_\_\_\_\_nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
54. environmental det\_\_\_\_\_nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
55. a con\_\_\_\_\_nal style *adj.* based on or following traditional rules, standards, customs, etc.
56. 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
57. am\_\_\_\_\_g advances *adj.* extremely surprising, especially in a way that you like or admire
58. a ventilation cy\_\_\_\_\_er *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

ANSWERS: 49. essentially, 50. feat, 51. alternative, 52. naturally, 53. efficient, 54. determinant, 55. conventional, 56. circuit, 57. amazing, 58. cylinder



59. con\_\_\_\_\_us improvement *adj.* occurring or existing without a pause or interruption
60. 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
61. enforce rev\_\_\_\_\_ary justice *adj.* relating to or characterized by a complete or dramatic change
62. si\_\_\_\_\_n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
63. di\_\_\_\_\_l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
64. ease of com\_\_\_\_\_on *n.* the consideration or examination of the similarities between two or more people or things
65. the per\_\_\_\_\_ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
66. industrial ex\_\_\_\_\_on *n.* the process of becoming larger or more extensive, or the result of this process

ANSWERS: 59. continuous, 60. process, 61. revolutionary, 62. silicon, 63. digital, 64. comparison, 65. perspective, 66. expansion

67. bypass ro\_\_\_\_\_ck *n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective
68. op\_\_\_\_\_ng counsel *adj.* competing, fighting, or working against each other
69. the degree of pu\_\_\_\_y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
70. an und\_\_\_\_\_ng cause of an accident *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
71. the most am\_\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
72. bu\_\_y packaging *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
73. a di\_\_\_\_\_l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
74. the ch\_\_\_\_\_ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
75. bu\_\_\_\_\_in battery *adj.* included as an integral part of something

ANSWERS: 67. roadblock, 68. opposing, 69. purity, 70. underlying, 71. amazing, 72. bulky, 73. digital, 74. chemistry, 75. built-in

76. ch\_\_n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
77. su\_\_\_\_\_nd a town *v.* to be all around something or somebody
78. spare co\_\_\_\_\_nts for cars *n.* one of several parts that combines with others to form something bigger
79. gr\_\_d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
80. energy-ef\_\_\_\_\_nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
81. an ar\_\_y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
82. an int\_\_\_\_\_nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
83. copyrighted so\_\_\_\_\_re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
84. fin\_\_\_\_\_nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
85. 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)

ANSWERS: 76. chain, 77. surround, 78. component, 79. grind, 80. efficient, 81. array, 82. intelligence, 83. software, 84. fingerprint, 85. molecular

86. social di\_\_\_\_ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
87. com\_\_\_\_\_on number *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
88. a per\_\_\_\_\_ve view *n.* a confident attitude toward something; a particular style of thinking about something
89. im\_\_\_\_\_t genes in the animals *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
90. face rel\_\_\_\_\_ss pressure *adj.* persistent and determined; continuing despite difficulties or setbacks
91. re\_\_\_\_\_ve factors *adj.* considered and evaluated through comparison with something else
92. co\_\_\_\_\_e an average score *v.* to make a mathematical calculation
93. probabilistic qu\_\_\_\_\_m theory *n.* the smallest amount or unit of something, especially (electromagnetic) energy
94. n\_\_m of action *n.* something that is regarded as usual, typical, or standard
95. student on a ti\_\_t budget *adj.* fixed, fastened, or kept together firmly or closely
96. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 86. distance, 87. combination, 88. perspective, 89. implant, 90. relentless, 91. relative, 92. compute, 93. quantum, 94. norm, 95. tight, 96. complexity



107. a two-dimensional ar\_\_y      *n.* a large group or collection of things or people, especially one that is impressive or attractive
108. 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
109. in\_\_\_\_\_le stars      *adj.* impossible or nearly impossible to see
110. crack of d\_\_n      *n.* the time of day when the sun's light starts to show in the sky
111. key co\_\_\_\_\_nt      *n.* one of several parts that combines with others to form something bigger
112. a te\_\_\_\_\_ue in martial arts      *n.* a particular way or art of doing something that needs skill
113. 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
114. di\_\_\_\_\_t a well-ordered condition      *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
115. an\_\_\_r weight      *n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
116. se\_\_\_\_\_te cream from milk      *v.* to force, take, or pull apart; mark as different

ANSWERS: 107. array, 108. circuit, 109. invisible, 110. dawn, 111. component, 112. technique, 113. stick, 114. disrupt, 115. anchor, 116. separate

117. common in \_\_\_\_\_ on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
118. sq\_\_\_m with excitement *v.* to twist, wiggle, or contort the body uncomfortably or awkwardly, often due to embarrassment, discomfort, or nervousness
119. tra\_\_\_\_\_or radio *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
120. ap\_\_\_\_\_te suppression *n.* a natural desire or craving for food or drink; a strong desire or liking for something
121. beam of el\_\_\_\_\_ons *n.* a tiny particle with the negative electrical charge
122. toxic ch\_\_\_\_\_als *adj.* relating to or connected with chemistry;
123. his conclusion was ob\_\_\_\_\_s *adj.* easy to see, discover or understand
124. mi\_\_\_n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
125. an\_\_\_r bolt *n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
126. fa\_\_\_l expressions *adj.* of or relating to a person's face

ANSWERS: 117. invention, 118. squirm, 119. transistor, 120. appetite, 121. electron, 122. chemical, 123. obvious, 124. micron, 125. anchor, 126. facial

127. pe\_\_\_\_ic payments *adj.* happening at regular intervals over a while
128. man\_\_\_\_\_re a product *v.* to make goods in large numbers, usually in a factory using machines
129. a c\_\_p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
130. ne\_\_\_l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
131. a stone wall su\_\_\_\_\_nds the palace *v.* to be all around something or somebody
132. 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
133. 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
134. sym\_\_\_\_\_al pattern *adj.* having similarity in size, shape, and relative position of corresponding parts
135. wa\_\_r cleaning system *n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices

ANSWERS: 127. periodic, 128. manufacture, 129. chip, 130. neural, 131. surround, 132. assembly, 133. develop, 134. symmetrical, 135. wafer



136. na\_\_\_\_\_ly regenerated forest *adv.* as might be expected; by natural manners
137. fru\_\_\_\_\_on level *n.* the feeling of being upset or annoyed as a result of being unable to change or achieve something
138. au\_\_\_\_\_t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it
139. in\_\_\_\_\_te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
140. a ti\_\_t game *adj.* fixed, fastened, or kept together firmly or closely
141. f\_\_t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
142. mi\_\_c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
143. bre\_\_\_\_\_ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
144. a ch\_\_\_\_\_al compound *adj.* relating to or connected with chemistry;
145. field of artificial int\_\_\_\_\_nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
146. mo\_\_\_\_\_ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

ANSWERS: 136. naturally, 137. frustration, 138. augment, 139. integrate, 140. tight, 141. feat, 142. mimic, 143. breakthrough, 144. chemical, 145. intelligence, 146. molecular

147. sq\_\_\_m uncomfortably *v.* to twist, wiggle, or contort the body uncomfortably or awkwardly, often due to embarrassment, discomfort, or nervousness
148. an in\_\_\_\_\_le asset *adj.* impossible or nearly impossible to see
149. 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
150. achieve spe\_\_\_\_\_ar growth *adj.* striking or impressive to look at or in performance or achievement
151. strawberry wa\_\_r *n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices
152. spe\_\_\_\_\_ar view *adj.* striking or impressive to look at or in performance or achievement
153. cle\_\_\_\_\_ss standards *n.* the state of being clean or free from dirt, dust, or foreign substances; the practice of maintaining good hygiene and cleanliness
154. a vast inventory of ha\_\_\_\_\_re *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
155. cutting-edge inn\_\_\_\_\_on *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 147. squirm, 148. invisible, 149. sensitive, 150. spectacular, 151. wafer, 152. spectacular, 153. cleanliness, 154. hardware, 155. innovation

156. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
157. im\_\_\_\_\_t into the uterus *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
158. 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
159. 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
160. 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
161. a ro\_\_\_\_t appetite *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
162. fin\_\_\_\_\_nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

ANSWERS: 156. engineer, 157. implant, 158. develop, 159. nanoscale, 160. process, 161. robust, 162. fingerprint

163. take im\_\_\_\_\_te effect *adj.* happening or done without delay or occurring shortly after something else
164. ove\_\_\_\_\_ify the problem *v.* to describe or explain something in a way that is too simple and no longer holds true
165. fa\_\_\_\_l nerve *adj.* of or relating to a person's face
166. co\_\_\_\_\_t only in knowing facts *v.* to be composed or made up of
167. tra\_\_\_\_\_or circuit *n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics
168. 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
169. the in\_\_\_\_\_on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
170. I don't care a c\_\_p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
171. as\_\_\_\_\_le a jigsaw puzzle *v.* to collect in one place as a single group
172. there is no other alt\_\_\_\_\_ve *n.* one of two or more available possibilities or choice
173. mi\_\_\_\_\_re camera *adj.* being on a very small scale
174. biological po\_\_\_\_\_r *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

ANSWERS: 163. immediate, 164. oversimplify, 165. facial, 166. consist, 167. transistor, 168. sensitive, 169. invention, 170. chip, 171. assemble, 172. alternative, 173. miniature, 174. polymer

175. the cabin pressure fell dra\_\_\_\_\_lly     *adv.* in a very impressive manner
176. re\_\_l bad luck     *v.* to force an attack or attacker to withdraw or retreat
177. se\_\_\_\_\_te video into chapter     *v.* to force, take, or pull apart; mark as different
178. rec\_\_\_\_\_on award     *n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal
179. ex\_\_\_\_\_ng news     *adj.* causing a lot of interest or excitement
180. boost my con\_\_\_\_\_ce     *n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something
181. v\_\_t majority     *adj.* enormous in size, number, amount, or quantity
182. an und\_\_\_\_\_ng motive     *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
183. beginning of the industrial  
rev\_\_\_\_\_on     *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
184. arc\_\_\_\_\_ure design     *n.* the art and science of designing and constructing buildings
185. a six-cy\_\_\_\_\_er engine     *n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this
186. con\_\_\_\_\_ce as a teacher     *n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

ANSWERS: 175. dramatically, 176. repel, 177. separate, 178. recognition, 179. exciting, 180. confidence, 181. vast, 182. underlying, 183. revolution, 184. architecture, 185. cylinder, 186. confidence

187. a cr\_\_l and unusual punishment *adj.* feeling or showing pleasure in causing pain or suffering to others
188. sma\_\_\_\_\_ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
189. post re\_\_\_\_\_ly to a blog *adv.* at regular intervals or times
190. mi\_\_\_n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
191. professor of ch\_\_\_\_\_ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
192. sem\_\_\_\_\_tor device *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
193. ne\_\_\_l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
194. e\_\_h a metal plate *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
195. visual de\_\_\_ts *n.* an imperfection, shortcoming, or lack of something or someone
196. ro\_\_\_t growth *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

ANSWERS: 187. cruel, 188. smartphone, 189. regularly, 190. micron, 191. chemistry, 192. semiconductor, 193. neural, 194. etch, 195. defect, 196. robust

197. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
198. blood li\_\_d profile *n.* any of a group of organic compounds, including fats, oils, and waxes, that are insoluble in water but soluble in organic solvents and are essential constituents of living cells
199. e\_\_h a design into wood *v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern
200. joint rec\_\_\_\_\_on *n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal
201. express fru\_\_\_\_\_on *n.* the feeling of being upset or annoyed as a result of being unable to change or achieve something
202. ess\_\_\_\_\_ly correct *adv.* relating to the essential features or concepts of anything
203. barren of cr\_\_\_\_\_ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
204. com\_\_\_\_\_on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
205. ove\_\_\_\_\_ify a complex reality *v.* to describe or explain something in a way that is too simple and no longer holds true

ANSWERS: 197. complexity, 198. lipid, 199. etch, 200. recognition, 201. frustration, 202. essentially, 203. creative, 204. comparison, 205. oversimplify

206. man\_\_\_\_\_re an enzyme      *v.* to make goods in large numbers, usually in a factory using machines
207. mi\_\_\_\_\_re version      *adj.* being on a very small scale
208. imp\_\_\_\_\_ion on stage      *n.* the act of making something up on the spot or creating or performing something without preparation
209. inn\_\_\_\_\_on leader      *n.* the creation of a new device or process resulting from study and experimentation
210. ex\_\_\_\_\_on project      *n.* the process of becoming larger or more extensive, or the result of this process
211. a pa\_\_\_\_\_el case      *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
212. small mo\_\_\_\_\_les      *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
213. classic arc \_\_\_\_\_ure      *n.* the art and science of designing and constructing buildings
214. h\_\_t progress      *v.* to bring or come to a stop; to force to stop moving or operating
215. tre\_\_\_\_\_us territory      *adj.* that cannot be trusted; malicious; hazardous, even while seeming safe
216. au\_\_\_\_\_t immunity      *v.* to increase the size, extent, quantity, etc. of something by adding something to it
217. in\_\_t capital      *v.* to put money, effort, time, etc. into something to make a profit or achieve a result

ANSWERS: 206. manufacture, 207. miniature, 208. improvisation, 209. innovation, 210. expansion, 211. parallel, 212. molecule, 213. architecture, 214. halt, 215. treacherous, 216. augment, 217. invest



218. the wan light of d\_\_n  
*n.* the time of day when the sun's light starts to show in the sky
219. cry\_\_\_\_\_ne water  
*adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure
220. the ch\_\_\_\_\_c economic situation  
*adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
221. gr\_\_d away at my work  
*v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
222. new di\_\_\_\_\_on  
*n.* a measurable extent of a particular kind, such as width, height, or length
223. na\_\_\_\_\_le device  
*adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
224. ac\_\_\_\_\_e milestones  
*v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
225. at inc\_\_\_\_\_le speed  
*adj.* unbelievable; enormous
226. driving di\_\_\_\_\_ce  
*n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
227. ob\_\_\_\_\_s reasons  
*adj.* easy to see, discover or understand

ANSWERS: 218. dawn, 219. crystalline, 220. chaotic, 221. grind, 222. dimension, 223. nanoscale, 224. achieve, 225. incredible, 226. distance, 227. obvious

228. tracking de\_\_\_e                    *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
229. cultural n\_\_\_m                    *n.* something that is regarded as usual, typical, or standard
230. v\_\_\_t desert                    *adj.* enormous in size, number, amount, or quantity
231. jazz imp\_\_\_\_\_ion            *n.* the act of making something up on the spot or creating or performing something without preparation
232. loss of ap\_\_\_\_\_te            *n.* a natural desire or craving for food or drink; a strong desire or liking for something
233. ext\_\_\_\_\_ary weather        *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
234. the te\_\_\_\_\_ue applied to construction                    *n.* a particular way or art of doing something that needs skill
235. in an op\_\_\_\_\_ng direction    *adj.* competing, fighting, or working against each other
236. sem\_\_\_\_\_tor industry        *n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices
237. b\_\_\_d as a family                *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
238. re\_\_\_\_\_ly arranged            *adv.* at regular intervals or times

ANSWERS: 228. device, 229. norm, 230. vast, 231. improvisation, 232. appetite, 233. extraordinary, 234. technique, 235. opposing, 236. semiconductor, 237. bond, 238. regularly

239. develop a vi\_\_\_e therapy *adj.* capable of being done as intended; able to succeed
240. mic\_\_\_\_\_ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
241. co\_\_\_\_\_e the value *v.* to make a mathematical calculation
242. a remote re\_\_\_\_\_ve *adj.* considered and evaluated through comparison with something else
243. an energy eff\_\_\_\_\_cy *n.* the state or quality of doing something well with no waste of input such as time or money
244. an el\_\_\_\_\_te hat *adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts
245. nuclear me\_\_\_\_\_ne *n.* a soft, thin layer that forms animal or vegetable tissue
246. ac\_\_\_\_\_e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
247. 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
248. co\_\_\_\_\_t mainly of cells *v.* to be composed or made up of
249. genic com\_\_\_\_\_ons *n.* a collection of things that have been combined; an assemblage of separate parts or qualities
250. the pe\_\_\_\_\_ic blooming of the cherry-blossom *adj.* happening at regular intervals over a while

ANSWERS: 239. viable, 240. microscopic, 241. compute, 242. relative, 243. efficiency, 244. elaborate, 245. membrane, 246. achieve, 247. structure, 248. consist, 249. combination, 250. periodic

251. h\_\_t production *v.* to bring or come to a stop; to force to stop moving or operating
252. in\_\_\_\_\_te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
253. asy\_\_\_\_\_cal design *adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position
254. cr\_\_l joke *adj.* feeling or showing pleasure in causing pain or suffering to others
255. the crosswise di\_\_\_\_\_on *n.* a measurable extent of a particular kind, such as width, height, or length
256. asy\_\_\_\_\_cal haircut *adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position
257. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
258. get a con\_\_\_\_\_nal loan *adj.* based on or following traditional rules, standards, customs, etc.
259. cr\_\_\_\_\_ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
260. a fr\_\_\_\_\_onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
261. mi\_\_c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh

ANSWERS: 251. halt, 252. integrate, 253. asymmetrical, 254. cruel, 255. dimension, 256. asymmetrical, 257. engineer, 258. conventional, 259. creative, 260. fraction, 261. mimic

262. ch\_\_\_\_c theory      *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
263. supply ch\_\_n      *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
264. di\_\_\_\_t sleep      *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
265. rev\_\_\_\_\_\_ary change      *adj.* relating to or characterized by a complete or dramatic change
266. electronic de\_\_\_e      *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 262. chaotic, 263. chain, 264. disrupt, 265. revolutionary, 266. device

## Session 3: Fill in the Blanks

1. The child \_\_\_\_\_ out of his mother's grasp and ran off.
  - v. to twist, wiggle, or contort the body uncomfortably or awkwardly, often due to embarrassment, discomfort, or nervousness
  
2. 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
  
3. All the supervisor has to do is assign tasks that make his subordinates more \_\_\_\_\_.
  - adj. relating to or involving the use of skill and original and unusual ideas to create something
  
4. 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
  
5. We are developing plant-derived \_\_\_\_\_ to reduce environmental impact.
  - n. a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
  
6. He was known to be very \_\_\_\_\_ and would often work late into the night.
  - adj. hardworking, diligent, and persistent in effort
  
7. Jockey's superior \_\_\_\_\_ brought him victory.
  - n. a particular way or art of doing something that needs skill

ANSWERS: 1. squirmed, 2. stick, 3. creative, 4. structure, 5. polymers, 6. industrious, 7. technique

8. He found that it is difficult to \_\_\_\_\_ socially.  
*v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
9. A \_\_\_\_\_ audience viewed the broadcast.  
*adj.* enormous in size, number, amount, or quantity
10. Missile assaults on the capital continued around \_\_\_\_\_.  
*n.* the time of day when the sun's light starts to show in the sky
11. 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
12. The marathon runner covered a long \_\_\_\_\_ in a short amount of time.  
*n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
13. 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
14. 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
15. She is very \_\_\_\_\_ in her thoughts.  
*adj.* based on or following traditional rules, standards, customs, etc.

ANSWERS: 8. integrate, 9. vast, 10. dawn, 11. complexity, 12. distance, 13. component, 14. circuit, 15. conventional

16. The solar panel uses high-quality silicon \_\_\_\_\_ to convert sunlight into electricity efficiently.
- n.* a thin, flat, crisp biscuit or cake, often used as a communion element in religious services; a thin slice or piece of semiconductor material used in the production of computer chips and other electronic devices
17. Big techs are now eager to develop \_\_\_\_\_ computers.
- n.* the smallest amount or unit of something, especially (electromagnetic) energy
18. Sensors convert physical phenomena into \_\_\_\_\_ signals.
- adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
19. He felt a deep \_\_\_\_\_ as he realized the project would not be completed on time.
- n.* the feeling of being upset or annoyed as a result of being unable to change or achieve something
20. He was \_\_\_\_\_ gifted.
- adv.* as might be expected; by natural manners
21. Change is also occurring in Turkey as a result of \_\_\_\_\_ reform.
- adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
22. The \_\_\_\_\_ leader inspired others to join the fight for freedom and democracy.
- adj.* relating to or characterized by a complete or dramatic change

ANSWERS: 16. wafers, 17. quantum, 18. digital, 19. frustration, 20. naturally, 21. chaotic, 22. revolutionary



23. He spent only a \_\_\_\_\_ of his earnings.

- n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

24. He is very popular at school because he can \_\_\_\_\_ all the teachers' accents.

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

25. His father's death changed his whole \_\_\_\_\_ on life.

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

26. Our company must continue to strive for greater \_\_\_\_\_.

- n.* the state or quality of doing something well with no waste of input such as time or money

27. Necessity is the mother of \_\_\_\_\_.

- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

28. The outermost \_\_\_\_\_ shell determines the chemical properties of an atom.

- n.* a tiny particle with the negative electrical charge

29. Loud noises might harm the fragile ear \_\_\_\_\_.

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

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

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

ANSWERS: 23. fraction, 24. mimic, 25. perspective, 26. efficiency, 27. invention, 28. electron, 29. membrane, 30. advantages

31. The new \_\_\_\_\_ device has a faster processor and better graphics than its predecessor.
- n.* a small flat electronic device used for browsing the internet, reading, writing, or playing games; a small, solid pill of medicine
32. The company specializes in both hardware and \_\_\_\_\_.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
33. Higher \_\_\_\_\_ requires additional equipment and energy.
- n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
34. The heavy snow has been \_\_\_\_\_ since last morning.
- adj.* occurring or existing without a pause or interruption
35. Due to snow and ice, many roads have become \_\_\_\_\_ and motorists are advised to travel gently.
- adj.* that cannot be trusted; malicious; hazardous, even while seeming safe
36. He walked a road \_\_\_\_\_ to the railroad.
- adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
37. He sprained his \_\_\_\_\_ while playing basketball.
- n.* the joint between the hand and the forearm; the narrow part of the hand near this joint
38. The vegetarian burger was an \_\_\_\_\_ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 31. tablet, 32. software, 33. purity, 34. continuous, 35. treacherous, 36. parallel, 37. wrist, 38. innovation

39. The experiment yielded \_\_\_\_\_ results that support his theory.

*adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

40. The \_\_\_\_\_ principle of every business was identical.

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

41. He did complicated pen-and-ink drawings like medieval \_\_\_\_\_.

*adj.* being on a very small scale

42. Skill and \_\_\_\_\_ are an unconquered army.

*n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

43. The firm has grown into a large \_\_\_\_\_ manufacturing.

*adj.* relating to or connected with chemistry;

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

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

45. On three sides, mountains \_\_\_\_\_ the settlement.

*v.* to be all around something or somebody

46. In terms of \_\_\_\_\_ he was head and shoulders above his classmates.

*n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 39. robust, 40. underlying, 41. miniatures, 42. confidence, 43. chemical, 44. efficient, 45. surround, 46. intelligence,

47. The \_\_\_\_\_ on my bike broke, leaving me stranded.

- n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

48. Both parties are now entirely ideologically \_\_\_\_\_.

- v.* to put or arrange two or more things in a straight line or to form a straight line

49. I tried to \_\_\_\_\_ the efficiency of the investment.

- v.* to make a mathematical calculation

50. The ship dropped \_\_\_\_\_ in the bay.

- n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability

51. Most countries prohibit sexual activity between certain close \_\_\_\_\_.

- adj.* considered and evaluated through comparison with something else

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

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

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

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

54. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.

- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

55. \_\_\_\_\_ is the second most abundant element on earth after oxygen.

- n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 47. chain, 48. aligned, 49. compute, 50. anchor, 51. relatives, 52. dimensions, 53. amazing, 54. microscopic, 55. Silicon

56. He was given \_\_\_\_\_ for his outstanding work in the field of medicine.
- n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal
57. The majority of synthetic vitamins are \_\_\_\_\_ from oil.
- v.* to make goods in large numbers, usually in a factory using machines
58. The doctor will \_\_\_\_\_ a pacemaker to regulate his heart rate.
- v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
59. The \_\_\_\_\_ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
60. Astronomers are examining whether the \_\_\_\_\_ signals emanating from this star are artificial.
- adj.* happening at regular intervals over a while
61. The police used a \_\_\_\_\_ scanner to identify the suspect.
- n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
62. The dictator was known for his \_\_\_\_\_ and oppressive regime.
- adj.* feeling or showing pleasure in causing pain or suffering to others
63. The \_\_\_\_\_ to the new class was informative and engaging.
- n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

ANSWERS: 56. recognition, 57. manufactured, 58. implant, 59. engineer, 60. periodic, 61. fingerprint, 62. cruel, 63. introduction

64. 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

65. 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

66. People may \_\_\_\_\_ natural phenomena due to the improved accessibility of knowledge.

*v.* to describe or explain something in a way that is too simple and no longer holds true

67. The \_\_\_\_\_ furniture made it difficult to move around the small room.

*adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy

68. The national election was held amid \_\_\_\_\_ security.

*adj.* fixed, fastened, or kept together firmly or closely

69. 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

70. Life expectancy has grown \_\_\_\_\_ this century.

*adv.* in a very impressive manner

71. The \_\_\_\_\_ shape of the vase made it unique and exciting.

*adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position

ANSWERS: 64. assembly, 65. sensitive, 66. oversimplify, 67. bulky, 68. tight, 69. develop, 70. dramatically, 71. asymmetrical

72. The athlete's \_\_\_\_\_ training paid off in the end.

*adj.* persistent and determined; continuing despite difficulties or setbacks

73. Omega-3 fatty acids, found in foods like fish and nuts, are a type of \_\_\_\_\_ that is good for heart health.

*n.* any of a group of organic compounds, including fats, oils, and waxes, that are insoluble in water but soluble in organic solvents and are essential constituents of living cells

74. After a long hike, I had a huge \_\_\_\_\_ and devoured my meal in minutes.

*n.* a natural desire or craving for food or drink; a strong desire or liking for something

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

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

76. 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

77. Doctors are gradually coming around to the idea of using \_\_\_\_\_ medicines.

*n.* one of two or more available possibilities or choice

78. He used a sharp tool to \_\_\_\_\_ his initials onto the metal.

*v.* to carve, cut, or engrave (a design or text) into a hard surface; to corrode, erode or eat away at a metal surface using acid or another chemical substance to create a design or pattern

ANSWERS: 72. relentless, 73. lipid, 74. appetite, 75. array, 76. process, 77. alternative, 78. etch

79. The train came to a \_\_\_\_\_ at the station.

*v.* to bring or come to a stop; to force to stop moving or operating

80. The \_\_\_\_\_ fireworks display was the highlight of the festival.

*adj.* striking or impressive to look at or in performance or achievement

81. I always carry a backup \_\_\_\_\_ in case my phone runs out of battery.

*n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

82. This figure is \_\_\_\_\_ about the x-axis.

*adj.* having similarity in size, shape, and relative position of corresponding parts

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

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

84. Her response revealed \_\_\_\_\_ idiocy.

*adj.* unbelievable; enormous

85. The gas was trapped inside the \_\_\_\_\_ under high pressure.

*n.* a solid or hollow geometric figure with two round ends and long straight sides, or an object shaped like this

86. Both forts were subject to \_\_\_\_\_ attacks.

*adj.* happening or done without delay or occurring shortly after something else

87. 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

ANSWERS: 79. halt, 80. spectacular, 81. device, 82. symmetrical, 83. extraordinary, 84. incredible, 85. cylinders, 86. immediate, 87. nanoscale



88. The findings of the experiment were both \_\_\_\_\_ and unexpected.  
*adj.* causing a lot of interest or excitement
89. A technique called deep learning has led to \_\_\_\_\_ in AI.  
*n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
90. There are \_\_\_\_\_ differences between the two wine-producing regions.  
*adj.* easy to see, discover or understand
91. The \_\_\_\_\_ to the safe was a secret.  
*n.* a collection of things that have been combined; an assemblage of separate parts or qualities
92. The new car had a \_\_\_\_\_ navigation system.  
*adj.* included as an integral part of something
93. This examination \_\_\_\_\_ of five problems to solve.  
*v.* to be composed or made up of
94. 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
95. I'm so sorry to \_\_\_\_\_ you when you're pretty busy.  
*v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
96. The width of a single human hair is around 100 \_\_\_\_\_.  
*n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 88. exciting, 89. breakthroughs, 90. obvious, 91. combination, 92. built-in, 93. consists, 94. molecule, 95. disrupt, 96. microns

97. One \_\_\_\_\_ of success is having a positive attitude and a strong work ethic.
- n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
98. The systems we have developed has accepted as industry \_\_\_\_\_.
- n.* something that is regarded as usual, typical, or standard
99. The company is undergoing an \_\_\_\_\_ opening new locations in several states.
- n.* the process of becoming larger or more extensive, or the result of this process
100. The president began to \_\_\_\_\_ an army.
- v.* to collect in one place as a single group
101. He created a beautiful piece of music using only \_\_\_\_\_.
- n.* the act of making something up on the spot or creating or performing something without preparation
102. He proposed an \_\_\_\_\_ program of public works.
- adj.* containing a lot of carefully prepared and organized or many complicated and detailed parts
103. \_\_\_\_\_ profiling is a new form of airport security.
- adj.* of or relating to a person's face
104. The accident caused a \_\_\_\_\_ on the highway, causing traffic to come to a standstill.
- n.* a physical barrier or obstacle that prevents progress or movement; a situation that impedes progress or creates difficulty in achieving a goal or objective

ANSWERS: 97. determinant, 98. norms, 99. expansion, 100. assemble, 101. improvisation, 102. elaborate, 103. Facial, 104. roadblock

105. The invention of the \_\_\_\_\_ revolutionized the field of electronics.

*n.* a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

106. The phenomenon is \_\_\_\_\_ at optical wavelengths.

*adj.* impossible or nearly impossible to see

107. They had formed a friendship \_\_\_\_\_.

*n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

108. Male gorillas with good drumming skills are more \_\_\_\_\_.

*adj.* capable of being done as intended; able to succeed

109. We need to \_\_\_\_\_ the aspect of his personality from the part of his competence when making an investment decision.

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

110. The government should view children as national assets and actively \_\_\_\_\_ in them.

*v.* to put money, effort, time, etc. into something to make a profit or achieve a result

111. \_\_\_\_\_ 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)

112. There was a disturbance of \_\_\_\_\_ function.

*adj.* of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 105. transistor, 106. invisible, 107. bond, 108. viable, 109. separate, 110. invest, 111. Molecular, 112. neural

113. I've included the two designs for a \_\_\_\_\_.
- n.* the consideration or examination of the similarities between two or more people or things
114. We can use this campaign as a bargaining \_\_\_\_\_ in the negotiations.
- n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
115. Economic factors and monetary policy \_\_\_\_\_ inflation.
- v.* to increase the size, extent, quantity, etc. of something by adding something to it
116. It is an incredible \_\_\_\_\_ to climb Mount Everest, the highest mountain in the world.
- n.* a notable or impressive achievement, especially one that requires great skill or bravery
117. I will work hard to \_\_\_\_\_ my goals and realize my dreams.
- v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
118. This material can \_\_\_\_\_ moisture swiftly.
- v.* to force an attack or attacker to withdraw or retreat
119. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
120. We decided to \_\_\_\_\_ through the park and enjoy the scenery.
- v.* to wander or roam aimlessly or leisurely; to follow a winding or circuitous course, as a river or road

ANSWERS: 113. comparison, 114. chip, 115. augmented, 116. feat, 117. achieve, 118. repel, 119. chemistry, 120. meander

121. The geologist found a beautiful specimen of a \_\_\_\_\_ mineral.

*adj.* resembling crystal in clarity, transparency, or brilliance; having a highly ordered and symmetrical molecular structure

122. We have no intention of \_\_\_\_\_ his idea.

*adj.* competing, fighting, or working against each other

123. This site \_\_\_\_\_ shares high-quality academic materials.

*adv.* at regular intervals or times

124. \_\_\_\_\_ in the design could cause much worse issues.

*n.* an imperfection, shortcoming, or lack of something or someone

125. The city is known for its impressive \_\_\_\_\_ and beautiful old buildings.

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

126. She had to \_\_\_\_\_ the coffee beans before making a fresh cup.

*v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

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

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

128. The company develops and sells \_\_\_\_\_ memory for use in computers and servers.

*n.* a material or substance that can conduct electricity under certain conditions but not others, often used in electronic devices

ANSWERS: 121. crystalline, 122. opposing, 123. regularly, 124. Defects, 125. architecture, 126. grind, 127. smartphones, 128. semiconductor

129. We must prioritize our workplace's \_\_\_\_\_ for our employees' safety.

- n.* the state of being clean or free from dirt, dust, or foreign substances; the practice of maintaining good hygiene and cleanliness

130. The \_\_\_\_\_ by the citizen resulted in a redistribution of wealth.

- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;

131. I received a parcel of great \_\_\_\_\_.

- n.* the quantity or size of something that is very large; the main part of something

132. \_\_\_\_\_ a society is an organism.

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

133. The mouse and keyboard are essential \_\_\_\_\_ for operating a PC.

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

ANSWERS: 129. cleanliness, 130. revolution, 131. bulk, 132. Essentially, 133. hardware