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## Vocabulary Builder Reference from...

Neil Gershenfeld: Unleash your creativity in a Fab Lab | TED Talk

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### All Words

#### IMPORTANT

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## Session 1: Word List

### 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.

### argue

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

*synonym* : debate, dispute, quarrel

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

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

## involve

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

*synonym*: implicate, include, engage

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

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

## server

n. a computer program or a device from which other computers get information; a person who serves food in a restaurant

*synonym*: computer, waiter, waitperson

(1) a mail **server**, (2) work as a **server** in a restaurant

After the airing of the TV commercial, many people accessed the website, and the **server** went down.

## 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.

## bulb

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

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

The light **bulb** has burned out.

## commercialize

v. to make something available for sale or use on a large scale

*synonym*: monetize, capitalize, marketize

(1) **commercialize** my patents, (2) **commercialize** idea

The company is trying to **commercialize** its new product.

## encode

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

*synonym*: transcribe, convert

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

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

## optical

*adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

*synonym*: visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

## communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

*synonym*: convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

## acoustic

*adj.* relating to sound or the sense of hearing

*synonym*: aural, hearing, acoustical

(1) **acoustic** properties of a hall, (2) **acoustic** guitar

The ground acts as an **acoustic** barrier against outside sounds.

## principle

n. a fundamental law or truth that explains or controls how something happens or works

*synonym*: rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

## inter

v. to bury or place a dead body in a tomb or grave; to temporarily detain or imprison someone; (prefix) between or among

*synonym* : bury, entomb, inhume

(1) **inter** a dead body, (2) **inter-disciplinary**

The funeral director explained the process of how they **inter** remains after cremation.

## 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.

## fungible

*adj.* able to be replaced or exchanged with another identical item; uniform and interchangeable in value or use

*synonym* : interchangeable, exchangeable, tradable

(1) **fungible** securities, (2) **fungible** assets

Gold is a **fungible commodity**, meaning its value is interchangeable with other gold of the same quality and quantity.

## economics

*n.* the branch of social science that deals with the production, consumption, and transfer of goods and services

*synonym* : social science, finance, business

(1) welfare **economics**, (2) **economics** professor

His class will cover an introduction to agricultural **economics**.

## extended

*adj.* longer than usual or anticipated

*synonym* : extensive, prolonged, elongated

(1) **extended** vacation, (2) **extended** payment

The **extended** airport runways may accommodate larger jets.

## grain

*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

*synonym* : seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

## background

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

*synonym*: ground, experience, backdrop

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

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

## prototype

*n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

*synonym*: mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

## thesis

*n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

*synonym*: dissertation, argument, treatise

(1) a drift of a **thesis**, (2) master **thesis**

His **thesis** on the effects of climate change won several awards.

## 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.

## 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.

## viscous

*adj.* having a thick, sticky consistency between solid and liquid; exhibiting resistance to flow

*synonym*: thick, syrupy, gooey

(1) **viscous** flow, (2) highly **viscous** substance

The **viscous** liquid poured slowly from the jar.

## medium

*adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

*synonym*: average, intermediate, (noun) channel

(1) **medium** color, (2) an advertising **medium**

The **medium** size shirt fits him perfectly.

## 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.

## pound

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

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

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

## postscript

*n.* (also denoted as "P.S. ") an additional remark or note added at the end of a letter or other document after the main body has been completed; something that is added as an afterthought or supplemental information

*synonym*: P.S., addendum, afterword

(1) **postscript** message, (2) short **postscript**

I wrote a **postscript** at the bottom of the invitation, informing guests to bring their drinks.

## render

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

*synonym* : deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void  
The jury must **render** a decision on this complex case.

## 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.

## frame

*n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

*synonym* : body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

## buffer

*n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage

*synonym* : cushion, shield, insulation

(1) a **buffer** between the quarreling parents, (2) use a **buffer** to reduce noise

Using a password manager can act as a **buffer** against hackers who try to steal your personal information.

## 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.

## dot

*n.* a very small circular mark, especially one that is printed

*synonym* : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

## display

*v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

*synonym*: show, exhibit, present

(1) **display** merchandise, (2) **display** artwork

We need to **display** our products in an attractive way to attract customers.

## lab

*n.* a workplace for the conduct of scientific research; a laboratory

*synonym*: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

## 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.

## chemistry

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

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

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

## computation

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

*synonym*: calculation, estimation, arithmetic

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

The researcher demonstrated the superiority of quantum



**computation** in several mathematical tasks.

## **bubble**

*n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

*synonym*: blob, balloon, mania

(1) **bubble** in the champagne glass, (2) economic **bubble**

Many people worry that the current real estate market is a **bubble** that could burst soon.

## **interact**

*v.* to communicate or react with somebody

*synonym*: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

## **logic**

*n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

*synonym*: reasoning, reason, ratiocination

(1) an indisputable **logic**, (2) a demonstration in **logic**

There's no **logic** in his description.

## **multiplex**

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

*synonym*: multiplexer, complex, cinema

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

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

## **arrange**

*v.* to plan, prepare for, and carry out something

*synonym*: set up, order, organize

(1) **arrange** the meeting, (2) the list was **arranged** alphabetically

I need to **arrange** plans with him for the celebration.

## ultimate

*adj.* furthest or highest in degree or order

*synonym*: highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury  
Management must take **ultimate** responsibility for the accident.

## slide

*v.* to move or cause to move smoothly along a surface without interruption

*synonym*: glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance  
If necessary, you can **slide** the front seats forward.

## 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.

## mechanical

*adj.* operated by a machine, relating to or concerned with machinery or tools

*synonym*: machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

## nucleus

*n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom

*synonym*: core, heart, middle

(1) form a **nucleus**, (2) the **nucleus** of a team

DNA is stored in the **nucleus** of a cell.

## atom

*n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

*synonym*: particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

## rearrange

*v.* to change the order or position of things already made; to change the time, date, or place of an event already planned

*synonym*: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule

Please **rearrange** these files as we start a new project tomorrow.

## nuclear

*adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

*synonym*: atomic

(1) **nuclear** fusion, (2) use of **nuclear** power

Many countries have now agreed to a treaty banning the use of **nuclear** weapons.

## 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.

## 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.

## metaphor

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

*synonym* : conceit, analogy, symbol

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

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

## literally

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

*synonym* : actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

## 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.

## degrade

*v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

*synonym* : demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

## 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.

## threshold

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

*synonym* : anteroom, brink, verge

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

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

## theorem

*n.* a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning

*synonym* : proof, proposition, formula

(1) corollary **theorem**, (2) Pythagorean **theorem**

Gödel's incompleteness **theorems** prove the limitations of formal systems, including mathematical ones.

## imperfectly

*adv.* in a faulty or incomplete way

*synonym* : amiss, insufficiently, clumsily

(1) **imperfectly** developed, (2) **imperfectly** known disease

He created an **imperfectly** shaped torso.

## unreliable

*adj.* not able to be trusted or depended on

*synonym* : inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information

By incorrect assumption, statistics can be notoriously **unreliable**.

## restore

*v.* to repair or return something or someone to a previous good state or position

*synonym* : fix, mend, reestablish

(1) **restore** order, (2) **restore** the emperor to the throne  
The military regime has promised to **restore** democracy as soon as possible.

## analog

*adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

(1) an **analog** watch, (2) digitization of **analog** sounds  
Mercury thermometers are a type of **analog** sensor.

## differential

*n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference

*synonym*: contrasting, disparate, distinct

(1) **differential** wages, (2) **differential** equation  
The two countries pledged to maintain the **differential** between their two currencies.

## analyze

*v.* to think about in-depth and evaluate to discover essential features or meaning

*synonym*: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

## aft

*adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

(1) **aft** cabin, (2) **aft** view

The **aft** section of the ship suffered significant damage after the collision with the reef.

## 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.

## reliable

*adj.* worthy of being relied on; trustworthy

*synonym* : dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

## fabricate

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

*synonym* : manufacture, assemble, falsify

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

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

## state-of-the-art

*adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge

*synonym* : advanced, cutting-edge, innovative

(1) **state-of-the-art** technology, (2) **state-of-the-art** software

The hospital has **state-of-the-art** equipment and facilities to ensure the best healthcare for its patients.

## rot

*v.* to decay, or cause something to decay, naturally and gradually

*synonym* : perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

## metal

*n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

*synonym* : alloy, metalloid

(1) **metal** fabrication, (2) precious **metal**

The construction worker used a **metal** saw to cut through the stubborn sheet metal.

## wax

*n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

(1) **wax** finish, (2) **wax** and wane

He sealed the letter with a **wax** seal.

## melt

*v.* to turn from something solid into something soft or liquid as a result of heating

*synonym*: disintegrate, soften, disappear

(1) **melt** the ice, (2) **melt** down gold

Her resistance **melted** under his persuasion.

## artisan

*n.* a skilled craftsman or worker who produces handmade or traditionally crafted items, often using specialized tools or techniques; someone who is skilled in a particular trade or craft

*synonym*: craftsman, hand crafter, maker

(1) **artisan** bakery, (2) talented **artisan**

She is known in the community as a skilled **artisan** in pottery.

## recognize

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

*synonym*: acknowledge, identify, admit

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

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

## external

*adj.* belonging to or situated outside of someone or something

*synonym*: outside, exterior, foreign

(1) **external** factors, (2) **external** commerce

When a company discloses information to the market, an



**external** auditor verifies them.

## 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.

## biology

*n.* the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

## fundamental

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

*synonym* : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

## precise

*adj.* sharply exact or accurate or delimited

*synonym* : accurate, exact, distinct

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

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

## mathematics

*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

*synonym* : arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

## inspire

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

*synonym* : boost, encourage, enlighten

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

novel

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

## colleague

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

*synonym*: coworker, associate, fellow

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

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

## boundary

*n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places

*synonym*: border, frontier, limitation

(1) geographical **boundary**, (2) the **boundary** between reality and fantasy

He wandered the **boundary** between life and death by gunfire.

## canon

*n.* a set of rules, principles, or standards by which something is judged or measured

*synonym*: rule, principle, standard

(1) **canon** law, (2) strict **canon**

The **canon** of classical literature includes works by Shakespeare, Chaucer, and Homer.

## premature

*adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy

*synonym*: prematurely born, untimely, early

(1) **premature** birth, (2) **premature** death

The **premature** baby was small but healthy.

## stud

*n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with

studs for support

*synonym* : beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

## emerge

*v.* to move out of or away from something and become visible

*synonym* : arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

## proof

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

*synonym* : testimony, evidence, assurance

(1) documentary **proof**, (2) a geometric **proof**

**Proof** is better than argument.

## magnetic

*adj.* having the properties of attracting or repelling certain materials containing iron or steel

*synonym* : attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

## protein

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

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

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

## folding

*adj.* capable of being folded or bent; having one or more sections that can be folded or collapsed for easier storage or transportation

*synonym* : foldable, collapsible, bendable

(1) **folding** knife, (2) **folding** table

The **folding** chairs were easy to set up and take down for the

event.

## specification

*n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job

*synonym*: description, requirement, guideline

(1) functional **specification**, (2) engineering **specification**

The project's **specifications** outlined the goals and requirements for the team to complete.

## metrology

*n.* the scientific study and measurement of measurements, standards, and units of physical quantities, particularly about their accuracy and precision

*synonym*: measurement, calibration

(1) **metrology** laboratory, (2) precision **metrology**

The development of new **metrology** techniques has revolutionized the field of nanotechnology.

## fabric

*n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

*synonym*: cloth, material, goods

(1) a hand-loomed **fabric**, (2) **fabric** of creation

These synthetic **fabrics** are used in military vests because of their excellent abrasion resistance.

## replicate

*v.* to make an exact copy of something; to repeat a process or experiment to confirm the results

*synonym*: duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

## template

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

*synonym* : pattern, model, blueprint

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

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

## magnitude

*n.* the extent, level, importance, or amount of something

*synonym* : size, extent, level

(1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

## fidelity

*n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something

*synonym* : loyalty, devotion, allegiance

(1) **fidelity** guarantee deposit, (2) high **fidelity** music

The couple promised each other **fidelity** in their marriage vows.

## organism

*n.* a tiny living thing

*synonym* : being, creature

(1) aerobic **organism**, (2) group of **organisms**

A diversified plant species generally enhances beneficial **organism** populations.

## function

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

*synonym* : purpose, mapping, job

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

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

## cluster

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

*synonym* : group, aggregation, array

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

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

## peptide

*n.* a molecule made up of two or more amino acids linked in a chain, found in the structure of proteins

*synonym* : protein fragment, chain of amino acids

(1) **peptide** chain, (2) synthesis of **peptide**

The new drug was developed using a **peptide-based** formula that targets specific cells in the body.

## 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.

## magnet

*n.* an object or substance that can attract certain materials, such as iron or steel

*synonym* : magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

## 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.

## laser

*n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

*synonym* : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

## 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.

## functional

*adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

*synonym*: applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

## blueprint

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

*synonym*: draft, prototype, sketch

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

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

## emerging

*adj.* starting to exist, mature, or become well-known

*synonym*: arising, occurring, state-of-the-art

(1) **emerging** country, (2) **emerging** technologies

**Emerging** technologies have dramatically improved productivity in various industries.

## digit

*n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe

*synonym*: number, integer, numeral

(1) **digit** identifier, (2) the **digit** in the hundreds place

We must enter a six- **digit** number to unlock the safe.

## doll

*n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman

who is subservient or passive

*synonym* : puppet, dolly, toy

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

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

## modest

*adj.* having or showing a humble estimate of one's merits, importance, etc.; free from vanity, egotism, boastfulness, or great pretensions

*synonym* : unassuming, humble, unpretentious

(1) **modest** income, (2) only a **modest** fee

Despite his many achievements, he remained **modest** and down-to-earth.

## proposal

*n.* a formal suggestion or offer, sometimes a written one

*synonym* : offer, suggestion, proposition

(1) an innovative **proposal**, (2) details of his **proposal**

Our skeleton outline of the **proposal** met with much opposition.

## segregate

*v.* to separate or set apart from others, often based on race, gender, or some other characteristic

*synonym* : isolate, separate, divide

(1) **segregate** by race, (2) **segregate** boys and girls

The school board decided to **segregate** students by the ability to meet their needs better.

## discipline

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

*synonym* : training, restraint, field

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

He quickly learned the military **discipline**.

## beam

*n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

*synonym* :



ray, ray of light, shaft of light

(1) **beam** of light, (2) a structural **beam** of a building

The sun's **beam** shone through the window and illuminated the room.

## writ

*n.* a written legal order or command

*synonym*: legal document, order, legal process

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

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

## supersonic

*adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)

*synonym*: hypersonic, ultrasonic, transonic

(1) **supersonic** aircraft, (2) **supersonic** wind tunnel

The spacecraft reentered the Earth's atmosphere at **supersonic** speeds.

## jet

*n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

*synonym*: plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

## excimer

*n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes

(1) **excimer** molecule, (2) **excimer** formation

Doctors use **excimer** lasers to treat certain eye conditions.

## provocative

*adj.* arousing anger, interest, or another strong reaction, especially deliberately

*synonym* : instigating, provoking, inciting

(1) **provocative** questions, (2) a **provocative** smile

His **provocative** style frequently sparked controversies.

## beg

*v.* to ask for something urgently or earnestly; to appeal to someone to do something

*synonym* : plead, implore, entreat

(1) **beg** the question, (2) **beg** for help

She **begged** her parents to let her go to the concert.

## semester

*n.* one of the periods that the school or university divided into, especially in the US and Australia; a half-year term

(1) end of the **semester**, (2) during the **semester** breaks

We must complete all of these courses in the following **semester**.

## sculptor

*n.* an artist who creates sculptures, three-dimensional objects, or forms

*synonym* : carver, modeler, artist

(1) **sculptor** studio, (2) renowned **sculptor**

The famous **sculptor** used various tools to carve the marble into the desired shape.

## scream

*v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice

*synonym* : cry, shout, yell

(1) **scream** a profanity, (2) **scream** at him to be quiet

She kept **screaming** for an ambulance.

## buddy

*n.* a close friend; a partner, especially one of a pair or team

*synonym* : mate, peer, associate

(1) my golf **buddy**, (2) **buddy** movie

He was the first **buddy** in the military training camp.

## situ

*adj.* short for "situated," meaning located or placed in a particular position or circumstance

*synonym* : situational, contextual, circumstantial

(1) ex- **situ** conservation, (2) in- **situ** control

Melanoma in **situ** is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

## permit

v. to allow for something to happen or be done; (noun) the act of giving a formal, usually written, authorization

*synonym* : allow, authorize, concede

(1) **permit** application, (2) work **permit**

The teacher will not **permit** any students to leave the classroom early.

## portable

*adj.* easily moved or carried; able to be transported from one location to another

*synonym* : movable, transportable, convenient

(1) **portable** charger, (2) **portable** gas stove

The **portable** generator was essential during the camping trip.

## silent

*adj.* without any or little sound

*synonym* : quiet, hushed, mute

(1) **silent** reading, (2) give **silent** consent

The politician remained **silent** despite intense media scrutiny.

## release

v. to set free or allow to escape from confinement

*synonym* : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

## browse

v. to shop around in a leisurely and casual way; to look through a book, magazine, Internet, etc., casually and randomly, without seeking anything in particular; (of an animal) to feed on plants

*synonym* : look around, look through, scan

(1) **browse** a website, (2) **browse** through the text  
We **browsed** in a souvenir shop.

## parrot

*n.* a tropical bird with a curved beak and the ability to mimic sounds, often kept as a pet and trained to copy the human voice

*synonym*: copyist, wannabe

(1) repeat like a **parrot**, (2) a talking **parrot**

She keeps a **parrot** in a birdcage as a pet.

## surf

*v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner

*synonym*: browse, scan, paddle

(1) **surf** the Internet, (2) **surf** the waves

I'll **surf** the online store to see if I can find that item in a different color.

## alarm

*n.* a loud noise or an automatic signal that warns people of danger; a device that signals the occurrence of some undesirable event or particular danger

*synonym*: notice, warning, panic

(1) give the **alarm**, (2) an **alarm** clock

The **alarm** announcing an enemy attack went off this morning.

## wrestling

*n.* a sport in which two contestants grapple and try to throw each other to the ground

*synonym*: grappling, fighting, brawling

(1) **wrestling** match, (2) arm **wrestling**

He had always been interested in sumo **wrestling** and decided to try it.

## defend

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

*synonym*: protect, guard, support

(1) **defend** my country, (2) **defend** against a threat  
International law allows each nation to **defend** itself when its rights and interests are illegally violated.

## brick

*n.* a rectangular block of baked clay used as a building material

*synonym*: block, tile, paver

(1) **brick** wall, (2) dressed **brick**

The wall was made of hard **bricks** that had been used for centuries.

## app

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

*synonym*: application, software

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

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

## unique

*adj.* being the only one of its kind; unlike anything else

*synonym*: one-of-a-kind, unparalleled, incomparable

(1) a **unique** teacher, (2) **unique** design

The painting is **unique**, and there is no other like it.

## ken

*n.* knowledge, perception, understanding, or range of sight;  
(verb) to be aware of or know

*synonym*: knowledge, understanding, familiarity

(1) within my **ken**, (2) **ken** of the person

He had a good **ken** of the city and could easily find his way around.

## inventory

*n.* a complete list of all the items or goods held in stock by a business or organization; the act of making such a list

*synonym*: stock, supplies, goods

(1) **inventory** control, (2) annual **inventory**

The store manager took **inventory** of the products on the

shelves to know what needed restocking.

## payroll

*n.* a list of a company's employees and their salaries or wages; the total amount of money paid by a company to its employees regularly

*synonym*: salary list, wages, earnings

(1) **payroll** system, (2) **payroll** tax

The company's **payroll** department processed the paychecks every two weeks.

## bankrupt

*adj.* unable to pay one's debts; having been reduced to a state of financial ruin; lacking in something essential or fundamental

*synonym*: insolvent, broke, ruined

(1) **bankrupt** business, (2) financially **bankrupt**

Unfortunately, the company went **bankrupt** and had to close its doors permanently.

## personalize

*v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

*synonym*: customize, individualize, tailor

(1) **personalize** social media profile, (2) **personalize** my workspace

I like to **personalize** my phone case with a picture of my dog.

## trek

*n.* a long and difficult journey, typically on foot

*synonym*: journey, expedition, hike

(1) horseback **trek**, (2) **trek** expedition

He was preparing for a long **trek** through the mountains.

## hijack

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

*synonym*: commandeer, seize, pirate

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

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

## government

*n.* the group of people with authority to control a country or state

*synonym*: administration, regime, state

(1) **government** bureaucracy, (2) **government** funding

The federal **government** is planning to increase taxes for the next fiscal year.

## requirement

*n.* something that is needed or wanted

*synonym*: prerequisite, provision, condition

(1) meet **requirement**, (2) school **requirement**

What is the entry **requirement** for this course?

## outreach

*n.* an effort to extend help or services to people who may not be aware of them, often in a targeted manner; the process of establishing connections and communication with a wider community or audience; (verb) to reach out or make contact with people or groups to offer help, support, or information

*synonym*: extension, community involvement

(1) community **outreach**, (2) student **outreach**

The nonprofit organization's **outreach** program helps the homeless community by providing necessities.

## 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.

## equip

*v.* to provide a person or a place with the things that are needed for a particular purpose or activity

*synonym*: prepare, furnish, provide

(1) **equip** an army, (2) **equip** our children with some special skills

The construction company **equipped** the building with an earthquake-resistant device.

## approximate

*adj.* nearly accurate or correct, but not completely so  
*synonym* : rough, close, near

(1) linear **approximate** equation, (2) **approximate** time  
The **approximate** cost of the project was estimated to be around \$500,000.

## plot

*n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

*synonym* : scheme, plan, design

(1) **plot** twist, (2) **plot** a revolution

The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

## copper

*n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity

(1) **copper** alloy, (2) **copper** belt

He made the old **copper** coins shine.

## electromagnetic

*adj.* of or relating to the magnetism produced by electric charge in motion

(1) **electromagnetic** radiation, (2) **electromagnetic** properties

His hypothesis concerns the role of an **electromagnetic** field in human health.

## 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**.

## numerical

*adj.* relating to, expressed, or denoted by a number

*synonym* : quantitative, numeral, mathematical

(1) 3D **numerical** simulation, (2) the **numerical** keypad



The **numerical** value of Pi is approximately 3.14.

## controller

*n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting

*synonym*: regulator, manager, handler

(1) **controller** board, (2) financial **controller**

The gaming **controller** was the missing piece I needed to enjoy my video games fully.

## microsecond

*n.* one millionth (= 0.000,001) of a second

(1) at a **microsecond** rate, (2) 10 millimeters per **microsecond**

This process all happens within a **microsecond**.

## explode

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

*synonym*: detonate, blast, rupture

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

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

## schedule

*n.* a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done

*synonym*: agenda, program, itinerary

(1) a heavy **schedule**, (2) arrange my **schedule**

So far, the meeting is going according to **schedule**.

## uncover

*v.* to remove the cover from something; to discover something previously unseen or hidden

*synonym*: disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth

He continued his investigation and soon **uncovered** another crime.

## divide

*v.* to separate or cause to separate into parts or groups  
*synonym* : separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

## unused

*adj.* not being used, or never having been used  
*synonym* : pristine, untouched, unaccustomed

(1) a bullet left **unused**, (2) an **unused** place

The old entrance area is now **unused**.

## rural

*adj.* of or relating to the countryside  
*synonym* : agrarian, country, rustic

(1) **rural** accents, (2) people in **rural** areas

Many **rural** areas are still impoverished.

## modify

*v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

*synonym* : adjust, alter, revise

(1) genetically **modify** food, (2) **modify** my behavior

We use adverbs to **modify** verbs and adjectives.

## instrument

*n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

*synonym* : apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

## mass

*n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

*synonym* : abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

## 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.

## progression

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

*synonym*: advancement, development, evolution

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

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

## crazy

*adj.* stupid or not sensible; very angry

*synonym*: insane, absurd, bizarre

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

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

## empower

*v.* to give someone the power or authority to do something

*synonym*: authorize, endow, entitle

(1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

## technological

*adj.* based on scientific and industrial progress

*synonym*: specialized, technical

(1) **technological** advancement, (2) **technological** policy

**Technological** advances have disrupted many industries.

## on-demand

*adj.* available as needed or requested, often referring to products or services that can be accessed or delivered instantly or with minimal delay

*synonym* : on-request, as-needed, ad-hoc

(1) **on-demand** transportation, (2) **on-demand** delivery

Many consumers prefer **on-demand** streaming services over traditional cable TV.

## craft

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

*synonym* : art, skill, workmanship

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

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

## communal

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

*synonym* : collaborative, combined, collective

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

**Communal** elections were held in several European countries.

## hands-on

*adj.* actively involved, practical; having hands involved in the doing or making of something

*synonym* : practical, involved, hands-in

(1) **hands-on** activity, (2) take a **hands-on** approach

The **hands-on** workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.

## informal

*adj.* relaxed, casual, or unofficial in style or manner; not ceremonious or strict in adherence to rules or conventions; suitable for ordinary or everyday occasions

*synonym* : casual, relaxed, unofficial

(1) **informal** setting, (2) **informal** attire

The company's casual and **informal** work environment

encourages creativity and collaboration.

## sensor

*n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

*synonym* : detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

## refuse

*v.* to show that one is not willing to do or accept something

*synonym* : turn down, deny, decline

(1) **refuse** a request, (2) **refuse** the company

My initial reaction was to **refuse**.

## insist

*v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say

*synonym* : demand, assert, claim

(1) **insist** on a clear answer, (2) **insist** over and over

He **insisted** that she pay her debt to the last penny.

## 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.

## distribute

*v.* to give something to a large number of individuals, or to spread or furnish something

*synonym* : broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

## stack

*n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

*synonym* : accumulation, heap, pile

(1) high **stack**, (2) a large **stack** of paper

The earthquake caused a **stack** of lumber to crumble noisily.

## agriculture

*n.* the practice or science of cultivating the land or raising stock

*synonym* : farming, husbandry, agribusiness

(1) organic **agriculture**, (2) intensive **agriculture**

**Agriculture** is the foundation of our economy.

## turbine

*n.* a machine that rotates to generate power from fluids such as water or gas

*synonym* : engine, generator, power plant

(1) **turbine** energy, (2) **turbine** aerofoil

The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

## conversion

*n.* the act or process of changing something from one thing to another; the state of being changed

*synonym* : transformation, change, metamorphosis

(1) **conversion** rate, (2) **conversion** therapy

The developer's **conversion** of the old factory into a modern loft apartment complex was a major success.

## antenna

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

*synonym* : feeler, receiver

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

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

## 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**.

## construct

*v.* to build or create something; to assemble or combine different parts to form something whole

*synonym* : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

## kit

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

*synonym* : set, package, bundle

(1) survival **kit**, (2) a first-aid **kit**

I bought a new tool **kit** for my home repair projects.

## cardboard

*n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials

*synonym* : corrugated board, paperboard

(1) **cardboard** box, (2) **cardboard** cutout

I made a **cardboard** box to store my winter clothes in.

## tribal

*adj.* relating to a social group or tribe, especially a preliterate society

*synonym* : indigenous, ethnic, traditional

(1) **tribal** culture, (2) **tribal** community

The **tribal** leaders gathered for a summit to discuss important issues.

## chief

*adj.* most important or primary; (noun) a person who is in charge

*synonym* : essential, primary, leading

(1) **chief** accountant, (2) **chief** events of the year

Mining is a **chief** source of income for the country.

## mainframe

*n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications

(1) **mainframe** computer, (2) **mainframe** operating system

IBM has consistently been a significant supplier of

**mainframes** for a long time.

## projection

*n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something

*synonym* : estimate, forecast, prediction

(1) draw a **projection** chart, (2) **projection** mapping

The weather forecast includes a **projection** of the high and low temperatures for the next week.

## era

*n.* a period that is distinct from others, typically in history

*synonym* : epoch, age, period

(1) dawn of a new **era**, (2) the **era** of the Renaissance

Political corruption was common throughout the postwar **era**.

## hush

*v.* to make or become silent, especially by urging or persuading others to be quiet or by speaking softly or gently; to keep something secret or confidential

*synonym* : clam up, quieten, settle down

(1) **hush** for a while, (2) **hush** up a case

Please **hush** your voice so that the baby can sleep.

## discovery

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

*synonym* : finding, uncovering, detection

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

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

## 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.



## agency

*n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action

*synonym*: organization, bureau, institution

(1) real estate **agency**, (2) intelligence **agency**

The government **agency** regulated the country's food and drug safety standards.

## bay

*n.* a part of the coast that is partially enclosed by land; a compartment or section of a ship or building

*synonym*: inlet, cove, gulf

(1) **bay** area, (2) the mouth of a **bay**

She walked along the **bay** and collected shells.

## organization

*n.* a group of people who work together for a shared purpose

*synonym*: association, institution, community

(1) **organization** chart, (2) agricultural **organization**

She is the president of a large international **organization**.

## illegal

*adj.* not allowed by law

*synonym*: banned, prohibited, illicit

(1) **illegal** drugs, (2) child of **illegal** immigrants

The customs agents seized the **illegal** shipment.

## ordinary

*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree

*synonym*: mundane, prosaic, average

(1) an **ordinary** school, (2) **ordinary** annual revenue

The **ordinary** session of the Diet opened.

## consume

*v.* to spend something, especially fuel, energy, or time, in a large amount

*synonym*: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

## severe

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

*synonym* : harsh, relentless, powerful

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

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

## satellite

*n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

*synonym* : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**

Launching an artificial **satellite** contributed to the technological development of our country.

## outgrow

*v.* to grow too large for something; to grow taller or faster than another person

(1) **outgrow** my coat, (2) **outgrow** its usefulness

Bamboo will soon **outgrow** the other plants.

## barn

*n.* a large farm building used for storage of crops or housing livestock

*synonym* : shed, outbuilding, granary

(1) **barn** building, (2) a **barn** for cows

The old **barn** on the farm was used to store hay and other equipment.

## 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.

## split

*v.* to divide, or to make something divide into two or more parts, especially along a particular line

*synonym* : break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

## foundation

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

*synonym* : base, support, groundwork

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

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

## micro

*n.* extremely small in scale or scope; one millionth

(1) **micro** bubble, (2) **micro** force sensor

This approach employs both **micro** and macro analysis methods.

## finance

*n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

*synonym* : banking, investment, fund

(1) **finance** act, (2) manage my **finances**

Our company decided to hire an advisor who specializes in **finance**.

## fan

*n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

*synonym* : lover, devotee, blade

(1) a film **fan**, (2) engine cooling **fan**

I'm a big **fan** of French food.

## partnership

*n.* the state of a cooperative relationship between people or groups, especially in business

*synonym*: alliance, participation, cooperation

(1) **partnership** across the Atlantic, (2) establish a **partnership**

The military **partnership** between the two countries created tension in the international community.

## aid

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

*synonym*: helper, resource, assistance

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

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

## top-down

*adj.* controlled or implemented from the highest level of authority or management

*synonym*: centralized, hierarchical

(1) **top-down** management, (2) **top-down** approach

The **top-down** management approach could have been more effective in implementing organizational changes.

## grassroots

*adj.* of or relating to the ordinary people in a society or an organization as constituting a fundamental political and economic group

*synonym*: fundamental, major, elemental

(1) a **grassroots** movement for nuclear disarmament,

(2) the **grassroots** factor in making the decision

The feeling among the company's **grassroots** is that the CEO is not radical enough.

## 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.

## planet

*n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

*synonym* : earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

## hero

*n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities

*synonym* : champion, protagonist, savior

(1) local **hero**, (2) unsung **hero**

The soldier who sacrificed his life for his country is considered a national **hero**.

## sink

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

*synonym* : descend, drop, plummet

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

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

## opportune

*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

*synonym* : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

## harness

*v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

*synonym* : rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my

pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

## inventive

*adj.* able to come up with novel and unique ideas

*synonym*: imaginative, creative, innovative

(1) have the **inventive** talent, (2) **inventive** approach

All language around the world is consistently **inventive** but not intrusive.

## locally

*adv.* in or to a specific or limited area or region; focused or restricted to a particular locality or community

*synonym*: topically, nearby, regionally

(1) buy **locally**, (2) support **locally**

The restaurant sources its ingredients **locally**, ensuring freshness and supporting local farmers.

## loom

*v.* to appear or take shape as a large, especially in a frightening way

*synonym*: appear, come on, overshadow

(1) **loom** over the global economy, (2) **loom** on the horizon

The issue of divorce **loomed** large in his mind.

## bug

*n.* any tiny insect; a fault or defect in a computer program, system, or machine

*synonym*: insect, bacterium, microbe

(1) **bug** bites, (2) number of **bug** fixes

I found a stink **bug** crawling across the ceiling.

## appreciate

*v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone

*synonym*: acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

## transition

*n.* the process or period of changing from one state or circumstance to another

*synonym*: change, growth, shift

(1) **transition** phase, (2) ensure a smooth **transition**

The nation's healthcare system is in **transition** at the moment.

## 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.

## quest

*n.* a long or challenging search for something

*synonym*: exploration, inquisition, pursuit

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

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

## expression

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

*synonym*: statement, utterance, remark

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

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

## passion

*n.* intense, driving, or overpowering feeling or conviction

*synonym*: fervor, zeal, ardor

(1) **passion** hobby, (2) **passion** drive

Her **passion** for cooking is evident in every dish she prepares.

## Session 2: Spelling

1. form a nu\_\_\_\_s  
*n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom
2. only a mo\_\_\_t fee  
*adj.* having or showing a humble estimate of one's merits, importance, etc.; free from vanity, egotism, boastfulness, or great pretensions
3. gov\_\_\_\_\_nt funding  
*n.* the group of people with authority to control a country or state
4. in\_\_r-disciplinary  
*v.* to bury or place a dead body in a tomb or grave; to temporarily detain or imprison someone; (prefix) between or among
5. ex\_\_\_\_\_al factors  
*adj.* belonging to or situated outside of someone or something
6. fu\_\_\_\_\_le assets  
*adj.* able to be replaced or exchanged with another identical item; uniform and interchangeable in value or use
7. a pro\_\_\_\_\_ve smile  
*adj.* arousing anger, interest, or another strong reaction, especially deliberately
8. br\_\_\_e through the text  
*v.* to shop around in a leisurely and casual way; to look through a book, magazine, Internet, etc., casually and randomly, without seeking anything in particular; (of an animal) to feed on plants

ANSWERS: 1. nucleus, 2. modest, 3. government, 4. inter, 5. external, 6. fungible, 7. provocative, 8. browse



9. in\_\_\_t over and over *v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say
10. agricultural org\_\_\_\_\_ion *n.* a group of people who work together for a shared purpose
11. details of his pr\_\_\_\_\_al *n.* a formal suggestion or offer, sometimes a written one
12. the ul\_\_\_\_\_te goal in life *adj.* furthest or highest in degree or order
13. re\_\_\_e the company *v.* to show that one is not willing to do or accept something
14. 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
15. killer a\_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
16. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
17. re\_\_\_r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
18. an al\_\_m clock *n.* a loud noise or an automatic signal that warns people of danger; a device that signals the occurrence of some undesirable event or particular danger
19. work as a se\_\_\_r in a restaurant *n.* a computer program or a device from which other computers get information; a person who serves food in a restaurant

ANSWERS: 9. insist, 10. organization, 11. proposal, 12. ultimate, 13. refuse, 14. assembly, 15. app, 16. rot, 17. render, 18. alarm, 19. server

20. weak fou\_\_\_\_\_on
- n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
21. probabilistic qu\_\_\_\_\_m theory
- n.* the smallest amount or unit of something, especially (electromagnetic) energy
22. new op\_\_\_\_\_l glasses
- adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
23. co\_\_\_\_\_e an average score
- v.* to make a mathematical calculation
24. ca\_\_\_\_\_rd box
- n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
25. to\_\_\_\_\_wn approach
- adj.* controlled or implemented from the highest level of authority or management
26. se\_\_\_\_\_te by race
- v.* to separate or set apart from others, often based on race, gender, or some other characteristic
27. guarantee re\_\_\_\_\_le delivery
- adj.* worthy of being relied on; trustworthy
28. beginning of the industrial  
rev\_\_\_\_\_on
- n.* a large-scale attempt to overthrow the government of a country, often using violence or war;

ANSWERS: 20. foundation, 21. quantum, 22. optical, 23. compute, 24. cardboard, 25. top-down, 26. segregate, 27. reliable, 28. revolution

29. in\_\_\_\_\_e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
30. translate li\_\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
31. visual me\_\_\_\_\_or *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
32. tec\_\_\_\_\_cal advancement *adj.* based on scientific and industrial progress
33. arrange my sc\_\_\_\_\_le *n.* a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done
34. talented ar\_\_\_\_\_n *n.* a skilled craftsman or worker who produces handmade or traditionally crafted items, often using specialized tools or techniques; someone who is skilled in a particular trade or craft
35. mu\_\_\_\_\_ex DNA analysis *n.* a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements
36. engineering spe\_\_\_\_\_ion *n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job

ANSWERS: 29. involve, 30. literally, 31. metaphor, 32. technological, 33. schedule, 34. artisan, 35. multiplex, 36. specification

37. ex\_\_\_\_al commerce *adj.* belonging to or situated outside of someone or something
38. ou\_\_\_\_w its usefulness *v.* to grow too large for something; to grow taller or faster than another person
39. un\_\_\_\_r a potential problem *v.* to remove the cover from something; to discover something previously unseen or hidden
40. the bo\_\_\_\_ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
41. an or\_\_\_\_ry school *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
42. 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
43. wet-b\_\_b thermometer *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
44. local h\_\_o *n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities

ANSWERS: 37. external, 38. outgrow, 39. uncover, 40. boundary, 41. ordinary, 42. process, 43. bulb, 44. hero

45. manage my fi\_\_\_\_\_es
- n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets
46. at a mic\_\_\_\_\_nd rate
- n.* one millionth (= 0.000,001) of a second
47. horse s\_\_d
- n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
48. ex\_\_\_\_\_ng news
- adj.* causing a lot of interest or excitement
49. high pain th\_\_\_\_\_ld
- n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
50. annual in\_\_\_\_\_ry
- n.* a complete list of all the items or goods held in stock by a business or organization; the act of making such a list
51. ext\_\_\_\_\_ary ability
- adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
52. repeat like a pa\_\_\_\_t
- n.* a tropical bird with a curved beak and the ability to mimic sounds, often kept as a pet and trained to copy the human voice

ANSWERS: 45. finance, 46. microsecond, 47. stud, 48. exciting, 49. threshold, 50. inventory, 51. extraordinary, 52. parrot

53. architect's bl\_\_\_\_\_nt *n.* a photographic print of an early plan for a building or machine
54. a\_t cabin *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
55. bu\_\_y movie *n.* a close friend; a partner, especially one of a pair or team
56. di\_\_\_e the cake into two pieces *v.* to separate or cause to separate into parts or groups
57. break dis\_\_\_\_\_ne *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
58. dis\_\_\_\_\_te video content *v.* to give something to a large number of individuals, or to spread or furnish something
59. re\_\_\_\_\_ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
60. 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
61. a cr\_\_y scheme *adj.* stupid or not sensible; very angry
62. estimate pr\_\_\_\_\_e costs *adj.* sharply exact or accurate or delimited

ANSWERS: 53. blueprint, 54. aft, 55. buddy, 56. divide, 57. discipline, 58. distribute, 59. recognize, 60. digital, 61. crazy, 62. precise

63. cr\_\_t manufacture *n.* an activity that requires a particular skill in making things with one's hands
64. complete a pr\_\_\_\_\_pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
65. 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
66. em\_\_\_\_\_r my life *v.* to give someone the power or authority to do something
67. b\_g for help *v.* to ask for something urgently or earnestly; to appeal to someone to do something
68. a ma\_\_\_\_\_ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
69. or\_\_\_\_\_ry annual revenue *adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
70. a large st\_\_k of paper *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
71. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
72. de\_\_\_\_\_e his public image *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

ANSWERS: 63. craft, 64. prototype, 65. integrate, 66. empower, 67. beg, 68. magnetic, 69. ordinary, 70. stack, 71. biology, 72. degrade

73. geographical bo\_\_\_\_ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
74. l\_\_m on the horizon *v.* to appear or take shape as a large, especially in a frightening way
75. co\_\_\_\_r belt *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
76. d\_t blot method *n.* a very small circular mark, especially one that is printed
77. exp\_\_\_\_\_on of interest *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
78. mo\_\_\_\_\_le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
79. fun\_\_\_\_\_al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
80. sc\_\_\_\_m a profanity *v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice
81. a star of the first ma\_\_\_\_\_de *n.* the extent, level, importance, or amount of something
82. tracking de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 73. boundary, 74. loom, 75. copper, 76. dot, 77. expression, 78. molecule, 79. functional, 80. scream, 81. magnitude, 82. device



83. field of artificial int\_\_\_\_\_nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
84. sta\_\_\_\_\_art software *adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge
85. ele\_\_\_\_\_tic properties *adj.* of or relating to the magnetism produced by electric charge in motion
86. high st\_\_k *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
87. ex\_\_\_\_\_r formation *n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes
88. child of il\_\_\_\_\_l immigrants *adj.* not allowed by law
89. cognitive com\_\_\_\_\_ty *n.* the state or quality of being complicated or intricate and difficult to understand
90. neutral hydrogen a\_\_ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
91. ensure a smooth tra\_\_\_\_\_on *n.* the process or period of changing from one state or circumstance to another
92. the fr\_\_e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

ANSWERS: 83. intelligence, 84. state-of-the-art, 85. electromagnetic, 86. stack, 87. excimer, 88. illegal, 89. complexity, 90. atom, 91. transition, 92. frame

93. bite his tongue li\_\_\_\_\_ly  
*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
94. re\_\_\_\_\_ge his schedule  
*v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
95. 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
96. par\_\_\_\_\_ip across the Atlantic  
*n.* the state of a cooperative relationship between people or groups, especially in business
97. s\_\_f the waves  
*v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner
98. the ul\_\_\_\_\_te luxury  
*adj.* furthest or highest in degree or order
99. re\_\_\_r an assessment  
*v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
100. a bullet left un\_\_\_d  
*adj.* not being used, or never having been used
101. documentary pr\_\_f  
*n.* a fact or piece of information that shows something is true or exists
102. a mec\_\_\_\_\_al style of writing  
*adj.* operated by a machine, relating to or concerned with machinery or tools
103. precision me\_\_\_\_\_gy  
*n.* the scientific study and measurement of measurements, standards, and units of physical quantities, particularly about their accuracy and precision

ANSWERS: 93. literally, 94. rearrange, 95. nanoscale, 96. partnership, 97. surf, 98. ultimate, 99. render, 100. unused, 101. proof, 102. mechanical, 103. metrology

104. con\_\_\_\_\_er board *n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
105. joint rec\_\_\_\_\_on *n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal
106. fi\_\_\_\_\_e act *n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets
107. fou\_\_\_\_\_on course *n.* the lowest load-bearing part of a building, typically below ground level; a fundamental basis or principle upon which something is built or established; an organization that provides funding or support for charitable or educational purposes
108. ele\_\_\_\_\_tic radiation *adj.* of or relating to the magnetism produced by electric charge in motion
109. te\_\_\_\_\_te file *n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
110. corollary th\_\_\_\_\_m *n.* a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning

ANSWERS: 104. controller, 105. recognition, 106. finance, 107. foundation, 108. electromagnetic, 109. template, 110. theorem

111. re\_\_\_\_\_ge the furniture      *v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
112. wall s\_\_d      *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
113. community ou\_\_\_\_\_ch      *n.* an effort to extend help or services to people who may not be aware of them, often in a targeted manner; the process of establishing connections and communication with a wider community or audience; (verb) to reach out or make contact with people or groups to offer help, support, or information
114. use a bu\_\_\_r to reduce noise      *n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
115. b\_g the question      *v.* to ask for something urgently or earnestly; to appeal to someone to do something
116. in\_\_\_\_\_al setting      *adj.* relaxed, casual, or unofficial in style or manner; not ceremonious or strict in adherence to rules or conventions; suitable for ordinary or everyday occasions

ANSWERS: 111. rearrange, 112. stud, 113. outreach, 114. buffer, 115. beg, 116. informal

117. engine cooling f\_n      *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
118. collaborate with co\_\_\_\_\_ues      *n.* one of a group of a coworker, especially in a profession or a business
119. re\_\_\_\_\_e the emperor to the throne      *v.* to repair or return something or someone to a previous good state or position
120. pr\_\_\_\_\_n synthesis      *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
121. permanent ma\_\_\_\_t      *n.* an object or substance that can attract certain materials, such as iron or steel
122. arm wr\_\_\_\_\_ng      *n.* a sport in which two contestants grapple and try to throw each other to the ground
123. ex-s\_\_u conservation      *adj.* short for "situated," meaning located or placed in a particular position or circumstance
124. eq\_\_p an army      *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
125. em\_\_\_e as a butterfly      *v.* to move out of or away from something and become visible
126. 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

ANSWERS: 117. fan, 118. colleague, 119. restore, 120. protein, 121. magnet, 122. wrestling, 123. situ, 124. equip, 125. emerge, 126. chip

127. rigid dis\_\_\_\_\_ne                    *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
128. a geometric pr\_\_f                    *n.* a fact or piece of information that shows something is true or exists
129. artistic exp\_\_\_\_\_on                *n.* the act of conveying thoughts, feelings, or ideas using words, facial expressions, body language, or art; a look or gesture that conveys a particular emotion or mood
130. na\_\_\_\_\_le device                *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
131. pl\_\_\_t like the Earth                *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
132. re\_\_\_\_\_ze talent                *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
133. pos\_\_\_\_\_pt message              *n.* (also denoted as "P.S. ") an additional remark or note added at the end of a letter or other document after the main body has been completed; something that is added as an afterthought or supplemental information
134. de\_\_\_d my country                *v.* to protect someone or something from attack, criticism, danger, etc.

ANSWERS: 127. discipline, 128. proof, 129. expression, 130. nanoscale, 131. planet, 132. recognize, 133. postscript, 134. defend

135. de\_\_\_\_e environmental quality      *v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
136. ba\_\_\_\_pt business      *adj.* unable to pay one's debts; having been reduced to a state of financial ruin; lacking in something essential or fundamental
137. common in\_\_\_\_on      *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
138. 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
139. commercial j\_t      *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
140. ch\_\_f events of the year      *adj.* most important or primary; (noun) a person who is in charge
141. high fi\_\_\_\_ty music      *n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something
142. s\_\_k a buzzer-beater      *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else

ANSWERS: 135. degrade, 136. bankrupt, 137. invention, 138. distance, 139. jet, 140. chief, 141. fidelity, 142. sink

143. electronic de\_\_\_e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
144. an\_\_\_\_e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
145. il\_\_\_\_l drugs *adj.* not allowed by law
146. ar\_\_e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
147. em\_\_\_\_r the secretary to do the same *v.* to give someone the power or authority to do something
148. tra\_\_\_\_\_on phase *n.* the process or period of changing from one state or circumstance to another
149. sup\_\_\_\_\_ic wind tunnel *adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
150. oxygen a\_\_m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
151. theory of com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
152. cannot log in to the a\_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

ANSWERS: 143. device, 144. analyze, 145. illegal, 146. argue, 147. empower, 148. transition, 149. supersonic, 150. atom, 151. computation, 152. app



153. an advertising me\_\_\_m *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
154. com\_\_\_\_\_te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
155. ex\_\_\_\_\_e in anger *v.* to burst or break open violently and noisily; to cause something to burst or break open
156. 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)
157. work pe\_\_\_t *v.* to allow for something to happen or be done; (noun) the act of giving a formal, usually written, authorization
158. co\_\_\_r alloy *n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity
159. my golf bu\_\_y *n.* a close friend; a partner, especially one of a pair or team
160. re\_\_\_\_\_te data *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
161. re\_\_\_\_\_e a prisoner *v.* to set free or allow to escape from confinement
162. ca\_\_n law *n.* a set of rules, principles, or standards by which something is judged or measured

ANSWERS: 153. medium, 154. communicate, 155. explode, 156. molecular, 157. permit, 158. copper, 159. buddy, 160. replicate, 161. release, 162. canon

163. a criminal bac\_\_\_\_\_nd  
*n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
164. in-s\_\_u control  
*adj.* short for "situated," meaning located or placed in a particular position or circumstance
165. ess\_\_\_\_\_ly correct  
*adv.* relating to the essential features or concepts of anything
166. a structural b\_\_m of a building  
*n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
167. hi\_\_\_k a phone number  
*v.* to seize control of an airplane or other vehicle during an operation, especially with violence
168. re\_\_\_\_\_e order  
*v.* to repair or return something or someone to a previous good state or position
169. a gr\_\_n of sand  
*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
170. economic bu\_\_\_e  
*n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
171. a b\_\_n for cows  
*n.* a large farm building used for storage of crops or housing livestock

ANSWERS: 163. background, 164. situ, 165. essentially, 166. beam, 167. hijack, 168. restore, 169. grain, 170. bubble, 171. barn

172. issue a w\_\_t *n.* a written legal order or command
173. re\_\_\_e a request *v.* to show that one is not willing to do or accept something
174. pr\_\_\_\_\_re death *adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy
175. ac\_\_\_\_\_ic guitar *adj.* relating to sound or the sense of hearing
176. ma\_\_\_\_\_ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
177. the nu\_\_\_\_\_al keypad *adj.* relating to, expressed, or denoted by a number
178. pe\_\_\_t application *v.* to allow for something to happen or be done; (noun) the act of giving a formal, usually written, authorization
179. 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
180. wr\_\_\_\_\_ng match *n.* a sport in which two contestants grapple and try to throw each other to the ground
181. stress pr\_\_\_\_\_n *n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
182. re\_\_\_\_\_e CO2 into the air *v.* to set free or allow to escape from confinement

ANSWERS: 172. writ, 173. refuse, 174. premature, 175. acoustic, 176. magnetic, 177. numerical, 178. permit, 179. assembly, 180. wrestling, 181. protein, 182. release

183. 10 millimeters per mic\_\_\_\_\_nd *n.* one millionth (= 0.000,001) of a second
184. the ch\_\_\_\_\_c economic situation *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
185. me\_\_l fabrication *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
186. tr\_\_\_l culture *adj.* relating to a social group or tribe, especially a preliterate society
187. ru\_\_l accents *adj.* of or relating to the countryside
188. in\_\_\_t capital *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
189. on\_\_\_\_\_nd delivery *adj.* available as needed or requested, often referring to products or services that can be accessed or delivered instantly or with minimal delay
190. a film f\_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
191. b\_y area *n.* a part of the coast that is partially enclosed by land; a compartment or section of a ship or building
192. dif\_\_\_\_\_ial wages *n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference

ANSWERS: 183. microsecond, 184. chaotic, 185. metal, 186. tribal, 187. rural, 188. invest, 189. on-demand, 190. fan, 191. bay, 192. differential

193. fa\_\_\_c of creation *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
194. an an\_\_\_g watch *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
195. di\_\_t identifier *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
196. survival k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
197. imp\_\_\_\_\_ly known disease *adv.* in a faulty or incomplete way
198. sl\_\_e a glance *v.* to move or cause to move smoothly along a surface without interruption
199. a bu\_\_\_r between the quarreling parents *n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
200. k\_n of the person *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
201. ex\_\_\_\_\_ed vacation *adj.* longer than usual or anticipated
202. me\_\_\_m color *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
203. renowned sc\_\_\_\_\_or *n.* an artist who creates sculptures, three-dimensional objects, or forms

ANSWERS: 193. fabric, 194. analog, 195. digit, 196. kit, 197. imperfectly, 198. slide, 199. buffer, 200. ken, 201. extended, 202. medium, 203. sculptor

204. ha\_\_\_\_s a horse to a carriage      *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
205. co\_\_\_\_e electricity      *v.* to spend something, especially fuel, energy, or time, in a large amount
206. ma\_\_\_\_t attraction      *n.* an object or substance that can attract certain materials, such as iron or steel
207. financially ba\_\_\_\_pt      *adj.* unable to pay one's debts; having been reduced to a state of financial ruin; lacking in something essential or fundamental
208. financial a\_d      *n.* things sent to help countries in need, notably food or money; support
209. an\_\_\_\_a of insect      *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
210. hi\_\_\_\_k a helicopter      *v.* to seize control of an airplane or other vehicle during an operation, especially with violence
211. con\_\_\_\_on therapy      *n.* the act or process of changing something from one thing to another; the state of being changed
212. po\_\_\_\_le gas stove      *adj.* easily moved or carried; able to be transported from one location to another
213. l\_b instrument      *n.* a workplace for the conduct of scientific research; a laboratory

ANSWERS: 204. harness, 205. consume, 206. magnet, 207. bankrupt, 208. aid, 209. antenna, 210. hijack, 211. conversion, 212. portable, 213. lab

214. group of or\_\_\_\_\_sms *n.* a tiny living thing
215. si\_\_\_\_t reading *adj.* without any or little sound
216. the di\_\_t in the hundreds place *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
217. 3D nu\_\_\_\_\_al simulation *adj.* relating to, expressed, or denoted by a number
218. master th\_\_\_\_s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject
219. un\_\_\_\_\_r the truth *v.* to remove the cover from something; to discover something previously unseen or hidden
220. di\_\_\_\_\_y merchandise *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
221. to\_\_\_\_\_wn management *adj.* controlled or implemented from the highest level of authority or management
222. bu\_\_\_\_e in the champagne glass *n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses
223. cr\_\_y about cars and racing *adj.* stupid or not sensible; very angry
224. during the se\_\_\_\_\_er breaks *n.* one of the periods that the school or university divided into, especially in the US and Australia; a half-year term

ANSWERS: 214. organism, 215. silent, 216. digit, 217. numerical, 218. thesis, 219. uncover, 220. display, 221. top-down, 222. bubble, 223. crazy, 224. semester

225. a scientific di\_\_\_\_\_ry      *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
226. 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
227. the qu\_\_t for truth      *n.* a long or challenging search for something
228. pe\_\_\_\_\_e chain      *n.* a molecule made up of two or more amino acids linked in a chain, found in the structure of proteins
229. ac\_\_\_\_\_ic properties of a hall      *adj.* relating to sound or the sense of hearing
230. intensive agr\_\_\_\_\_re      *n.* the practice or science of cultivating the land or raising stock
231. ex\_\_\_\_\_ed payment      *adj.* longer than usual or anticipated
232. mat\_\_\_\_\_cs competition      *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
233. three-fourths of a po\_\_d      *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
234. 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

ANSWERS: 225. discovery, 226. process, 227. quest, 228. peptide, 229. acoustic, 230. agriculture, 231. extended, 232. mathematics, 233. pound, 234. digital



235. a meteorological sa\_\_\_\_\_te      *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
236. private j\_t      *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
237. l\_\_m over the global economy      *v.* to appear or take shape as a large, especially in a frightening way
238. m\_\_t the ice      *v.* to turn from something solid into something soft or liquid as a result of heating
239. genetically mo\_\_\_y food      *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
240. former co\_\_\_\_\_ue      *n.* one of a group of a coworker, especially in a profession or a business
241. the e\_a of the Renaissance      *n.* a period that is distinct from others, typically in history
242. short pos\_\_\_\_\_pt      *n.* (also denoted as "P.S. ") an additional remark or note added at the end of a letter or other document after the main body has been completed; something that is added as an afterthought or supplemental information
243. br\_\_k wall      *n.* a rectangular block of baked clay used as a building material

ANSWERS: 235. satellite, 236. jet, 237. loom, 238. melt, 239. modify, 240. colleague, 241. era, 242. postscript, 243. brick

244. in\_\_\_t on a clear answer      *v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say
245. in\_\_r a dead body      *v.* to bury or place a dead body in a tomb or grave; to temporarily detain or imprison someone; (prefix) between or among
246. ec\_\_\_\_\_cs professor      *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
247. app\_\_\_\_\_te her feedback      *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
248. immune fu\_\_\_\_\_on      *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
249. functional spe\_\_\_\_\_ion      *n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job
250. em\_\_\_e from poverty      *v.* to move out of or away from something and become visible

ANSWERS: 244. insist, 245. inter, 246. economics, 247. appreciate, 248. function, 249. specification, 250. emerge

251. evolutionary bi\_\_\_\_y                    *n.* the scientific study of life and the natural processes of living things
252. fu\_\_\_\_le securities                    *adj.* able to be replaced or exchanged with another identical item; uniform and interchangeable in value or use
253. a un\_\_\_\_e teacher                    *adj.* being the only one of its kind; unlike anything else
254. en\_\_\_\_e data                    *v.* to convert information into a code or format suitable for storage or transmission
255. p\_\_t a revolution                    *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
256. financial con\_\_\_\_er                    *n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
257. in\_\_\_\_ct directly with customers                    *v.* to communicate or react with somebody
258. a talking pa\_\_\_\_t                    *n.* a tropical bird with a curved beak and the ability to mimic sounds, often kept as a pet and trained to copy the human voice
259. an un\_\_\_\_d place                    *adj.* not being used, or never having been used
260. tr\_\_\_\_l community                    *adj.* relating to a social group or tribe, especially a preliterate society

ANSWERS: 251. biology, 252. fungible, 253. unique, 254. encode, 255. plot, 256. controller, 257. interact, 258. parrot, 259. unused, 260. tribal

261. mi\_\_\_n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
262. ext\_\_\_\_\_ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
263. digitization of an\_\_\_g sounds *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
264. ex\_\_\_\_\_ng football player *adj.* causing a lot of interest or excitement
265. fu\_\_\_\_\_on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
266. te\_\_\_\_\_te design *n.* a pre-designed file or document used as a starting point for a particular application so that the format does not have to be created from scratch
267. an innovative pr\_\_\_\_\_al *n.* a formal suggestion or offer, sometimes a written one
268. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 261. micron, 262. extraordinary, 263. analog, 264. exciting, 265. function, 266. template, 267. proposal, 268. opportune

269. un\_\_\_e design *adj.* being the only one of its kind; unlike anything else
270. me\_\_\_\_\_gy laboratory *n.* the scientific study and measurement of measurements, standards, and units of physical quantities, particularly about their accuracy and precision
271. in\_\_\_\_\_ve approach *adj.* able to come up with novel and unique ideas
272. organic agr\_\_\_\_\_re *n.* the practice or science of cultivating the land or raising stock
273. in\_\_\_\_\_e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
274. mo\_\_\_t income *adj.* having or showing a humble estimate of one's merits, importance, etc.; free from vanity, egotism, boastfulness, or great pretensions
275. h\_\_h for a while *v.* to make or become silent, especially by urging or persuading others to be quiet or by speaking softly or gently; to keep something secret or confidential
276. Pythagorean th\_\_\_\_\_m *n.* a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning
277. student ou\_\_\_\_\_ch *n.* an effort to extend help or services to people who may not be aware of them, often in a targeted manner; the process of establishing connections and communication with a wider community or audience; (verb) to reach out or make contact with people or groups to offer help, support, or information

ANSWERS: 269. unique, 270. metrology, 271. inventive, 272. agriculture, 273. involve, 274. modest, 275. hush, 276. theorem, 277. outreach

278. a bac\_\_\_\_\_nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
279. pro\_\_\_\_\_on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
280. dressed br\_\_k *n.* a rectangular block of baked clay used as a building material
281. a demonstration in lo\_\_c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
282. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
283. sup\_\_\_\_\_ic aircraft *adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
284. early pr\_\_\_\_\_pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
285. fa\_\_\_\_\_te a chemical *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
286. plastic d\_\_l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

ANSWERS: 278. background, 279. progression, 280. brick, 281. logic, 282. opportune, 283. supersonic, 284. prototype, 285. fabricate, 286. doll

287. a good grounding in mat\_\_\_\_\_cs     *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
288. critical m\_\_s     *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
289. br\_\_\_e a website     *v.* to shop around in a leisurely and casual way; to look through a book, magazine, Internet, etc., casually and randomly, without seeking anything in particular; (of an animal) to feed on plants
290. ex\_\_\_\_\_r molecule     *n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes
291. ch\_\_f accountant     *adj.* most important or primary; (noun) a person who is in charge
292. 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
293. sc\_\_\_\_\_or studio     *n.* an artist who creates sculptures, three-dimensional objects, or forms
294. the ch\_\_\_\_\_ry of soil     *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 287. mathematics, 288. mass, 289. browse, 290. excimer, 291. chief, 292. distance, 293. sculptor, 294. chemistry

295. an\_\_\_\_\_e your real motives      *v.* to think about in-depth and evaluate to discover essential features or meaning
296. con\_\_\_\_\_on rate      *n.* the act or process of changing something from one thing to another; the state of being changed
297. com\_\_\_\_\_ize my patents      *v.* to make something available for sale or use on a large scale
298. 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)
299. b\_\_n building      *n.* a large farm building used for storage of crops or housing livestock
300. get a con\_\_\_\_\_nal loan      *adj.* based on or following traditional rules, standards, customs, etc.
301. surgical ins\_\_\_\_\_nts      *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
302. thousands of po\_\_ds      *n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
303. po\_\_\_\_\_le charger      *adj.* easily moved or carried; able to be transported from one location to another
304. meet req\_\_\_\_\_nt      *n.* something that is needed or wanted
305. support lo\_\_\_\_\_y      *adv.* in or to a specific or limited area or region; focused or restricted to a particular locality or community

ANSWERS: 295. analyze, 296. conversion, 297. commercialize, 298. molecular, 299. barn, 300. conventional, 301. instrument, 302. pound, 303. portable, 304. requirement, 305. locally



306. sl\_\_e a card across the table      *v.* to move or cause to move smoothly along a surface without interruption
307. have the in\_\_\_\_\_ve talent      *adj.* able to come up with novel and unique ideas
308. ch\_\_\_\_\_c theory      *adj.* without any order or organization; extremely disorganized, unpredictable, and confusing
309. en\_\_\_e information      *v.* to convert information into a code or format suitable for storage or transmission
310. h\_\_h up a case      *v.* to make or become silent, especially by urging or persuading others to be quiet or by speaking softly or gently; to keep something secret or confidential
311. on\_\_\_\_\_nd transportation      *adj.* available as needed or requested, often referring to products or services that can be accessed or delivered instantly or with minimal delay
312. mo\_\_\_y my behavior      *v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
313. horseback t\_\_k      *n.* a long and difficult journey, typically on foot
314. bl\_\_\_\_\_nt for economic reform      *n.* a photographic print of an early plan for a building or machine
315. in\_\_\_\_\_al attire      *adj.* relaxed, casual, or unofficial in style or manner; not ceremonious or strict in adherence to rules or conventions; suitable for ordinary or everyday occasions

ANSWERS: 306. slide, 307. inventive, 308. chaotic, 309. encode, 310. hush, 311. on-demand, 312. modify, 313. trek, 314. blueprint, 315. informal

316. rag d\_\_l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
317. medical l\_\_b *n.* a workplace for the conduct of scientific research; a laboratory
318. b\_\_m of light *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
319. pro\_\_\_\_\_on mapping *n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something
320. end of the se\_\_\_\_\_er *n.* one of the periods that the school or university divided into, especially in the US and Australia; a half-year term
321. establish a par\_\_\_\_\_ip *n.* the state of a cooperative relationship between people or groups, especially in business
322. school req\_\_\_\_\_nt *n.* something that is needed or wanted
323. on a qu\_\_t for happiness *n.* a long or challenging search for something
324. tu\_\_\_\_\_e energy *n.* a machine that rotates to generate power from fluids such as water or gas
325. a GPS sa\_\_\_\_\_te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 316. doll, 317. lab, 318. beam, 319. projection, 320. semester, 321. partnership, 322. requirement, 323. quest, 324. turbine, 325. satellite

326. mi\_\_o force sensor *n.* extremely small in scale or scope; one millionth
327. pa\_\_\_\_\_l tax *n.* a list of a company's employees and their salaries or wages; the total amount of money paid by a company to its employees regularly
328. pro\_\_\_\_\_ve questions *adj.* arousing anger, interest, or another strong reaction, especially deliberately
329. pr\_\_\_\_\_le in business *n.* a fundamental law or truth that explains or controls how something happens or works
330. pr\_\_\_\_\_re birth *adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy
331. save the pl\_\_\_\_t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
332. mi\_\_\_\_n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
333. dis\_\_\_\_\_te wealth evenly *v.* to give something to a large number of individuals, or to spread or furnish something
334. the influence of mec\_\_\_\_\_al action *adj.* operated by a machine, relating to or concerned with machinery or tools
335. parallel com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

ANSWERS: 326. micro, 327. payroll, 328. provocative, 329. principle, 330. premature, 331. planet, 332. micron, 333. distribute, 334. mechanical, 335. computation

336. sp\_\_t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
337. give the al\_\_m *n.* a loud noise or an automatic signal that warns people of danger; a device that signals the occurrence of some undesirable event or particular danger
338. people in ru\_\_l areas *adj.* of or relating to the countryside
339. 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
340. ca\_\_\_\_\_rd cutout *n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials
341. co\_\_\_\_\_e the value *v.* to make a mathematical calculation
342. fo\_\_\_\_\_g table *adj.* capable of being folded or bent; having one or more sections that can be folded or collapsed for easier storage or transportation
343. dawn of a new e\_a *n.* a period that is distinct from others, typically in history
344. an image se\_\_\_\_r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
345. s\_\_f the Internet *v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner

ANSWERS: 336. split, 337. alarm, 338. rural, 339. integrate, 340. cardboard, 341. compute, 342. folding, 343. era, 344. sensor, 345. surf

346. w\_x and wane *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
347. aerobic or \_\_\_\_sm *n.* a tiny living thing
348. ar \_\_\_\_e the meeting *v.* to plan, prepare for, and carry out something
349. en \_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
350. a gra \_\_\_\_ts movement for nuclear disarmament *adj.* of or relating to the ordinary people in a society or an organization as constituting a fundamental political and economic group
351. synthesis of pe \_\_\_\_e *n.* a molecule made up of two or more amino acids linked in a chain, found in the structure of proteins
352. sc \_\_\_\_m at him to be quiet *v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice
353. fun \_\_\_\_al rights *adj.* forming an essential base or core from which everything else develops or is affected
354. professor of ch \_\_\_\_ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

ANSWERS: 346. wax, 347. organism, 348. arrange, 349. engineer, 350. grassroots, 351. peptide, 352. scream, 353. fundamental, 354. chemistry

355. a mail se\_\_\_r *n.* a computer program or a device from which other computers get information; a person who serves food in a restaurant
356. use of nu\_\_\_\_\_r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
357. small mo\_\_\_\_\_les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
358. ma\_\_\_\_\_me computer *n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications
359. tec\_\_\_\_\_cal policy *adj.* based on scientific and industrial progress
360. app\_\_\_\_\_te time *adj.* nearly accurate or correct, but not completely so
361. the th\_\_\_\_\_ld between rooms *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
362. a lily b\_\_b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
363. tu\_\_\_\_\_e aerofoil *n.* a machine that rotates to generate power from fluids such as water or gas

ANSWERS: 355. server, 356. nuclear, 357. molecule, 358. mainframe, 359. technological, 360. approximate, 361. threshold, 362. bulb, 363. turbine

364. em\_\_\_\_ng country *adj.* starting to exist, mature, or become well-known
365. f\_\_t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
366. 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
367. a w\_\_t of summons *n.* a written legal order or command
368. real estate ag\_\_\_\_y *n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action
369. com\_\_\_\_\_te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
370. unr\_\_\_\_\_le source of information *adj.* not able to be trusted or depended on
371. co\_\_\_\_al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
372. within my k\_n *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
373. a drift of a th\_\_\_\_s *n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

ANSWERS: 364. emerging, 365. feat, 366. develop, 367. writ, 368. agency, 369. communicate, 370. unreliable, 371. communal, 372. ken, 373. thesis

374. ma\_\_\_\_\_me operating system *n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications
375. a se\_\_\_e case of pneumonia *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous
376. fun\_\_\_\_\_al education *adj.* forming an essential base or core from which everything else develops or is affected
377. the st\_\_\_\_\_re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
378. a m\_\_s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
379. a first-aid k\_t *n.* a set of tools, supplies, or equipment for a particular purpose
380. country-by-country a\_d programs *n.* things sent to help countries in need, notably food or money; support
381. di\_\_\_\_\_y artwork *v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value
382. extend the TV an\_\_\_\_\_a *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
383. an int\_\_\_\_\_nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons

ANSWERS: 374. mainframe, 375. severe, 376. fundamental, 377. structure, 378. mass, 379. kit, 380. aid, 381. display, 382. antenna, 383. intelligence



384. dif\_\_\_\_\_ial equation *n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference
385. musical ins\_\_\_\_\_nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
386. ar\_\_e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
387. number of b\_g fixes *n.* any tiny insect; a fault or defect in a computer program, system, or machine
388. take a ha\_\_\_\_\_on approach *adj.* actively involved, practical; having hands involved in the doing or making of something
389. pa\_\_\_\_\_n hobby *n.* intense, driving, or overpowering feeling or conviction
390. laws of qu\_\_\_\_\_m mechanics *n.* the smallest amount or unit of something, especially (electromagnetic) energy
391. co\_\_\_\_\_ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
392. p\_\_t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

ANSWERS: 384. differential, 385. instrument, 386. argue, 387. bug, 388. hands-on, 389. passion, 390. quantum, 391. construct, 392. plot

393. 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
394. r\_t with age *v.* to decay, or cause something to decay, naturally and gradually
395. the ma\_\_\_\_\_de of the disaster *n.* the extent, level, importance, or amount of something
396. eq\_\_p our children with some special skills *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
397. vi\_\_\_\_\_s flow *adj.* having a thick, sticky consistency between solid and liquid; exhibiting resistance to flow
398. live in a cl\_\_\_\_\_r *n.* a group of similar things or people close together, often forming a distinct mass or unit
399. gov\_\_\_\_\_nt bureaucracy *n.* the group of people with authority to control a country or state
400. 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
401. the nu\_\_\_\_\_s of a team *n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom

ANSWERS: 393. transistor, 394. rot, 395. magnitude, 396. equip, 397. viscous, 398. cluster, 399. government, 400. transistor, 401. nucleus

402. in\_\_\_t in stocks      *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
403. in\_\_\_\_\_e a feeling of curiosity      *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
404. per\_\_\_\_\_ze my workspace      *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
405. re\_\_\_\_\_le access      *adj.* worthy of being relied on; trustworthy
406. pr\_\_\_\_\_e analyses      *adj.* sharply exact or accurate or delimited
407. in\_\_\_\_\_e him to write a novel      *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
408. co\_\_\_\_\_e a large of alcohol      *v.* to spend something, especially fuel, energy, or time, in a large amount
409. per\_\_\_\_\_ze social media profile      *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
410. a hand-loomed fa\_\_\_c      *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
411. the gra\_\_\_\_\_ts factor in making the decision      *adj.* of or relating to the ordinary people in a society or an organization as constituting a fundamental political and economic group

ANSWERS: 402. invest, 403. inspire, 404. personalize, 405. reliable, 406. precise, 407. inspire, 408. consume, 409. personalize, 410. fabric, 411. grassroots

412. ou\_\_\_\_w my coat      *v.* to grow too large for something; to grow taller or faster than another person
413. strict ca\_\_n      *n.* a set of rules, principles, or standards by which something is judged or measured
414. la\_\_r printer      *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
415. fi\_\_\_\_ty guarantee deposit      *n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something
416. se\_\_\_e heat      *adj.* extremely serious or bad in feeling, manner, or strict and harsh; extremely strong or vigorous
417. sp\_\_t a reward equally      *v.* to divide, or to make something divide into two or more parts, especially along a particular line
418. draw a pro\_\_\_\_\_on chart      *n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something
419. welfare ec\_\_\_\_\_cs      *n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
420. re\_\_\_\_\_te the cell      *v.* to make an exact copy of something; to repeat a process or experiment to confirm the results

ANSWERS: 412. outgrow, 413. canon, 414. laser, 415. fidelity, 416. severe, 417. split, 418. projection, 419. economics, 420. replicate

421. field of fun\_\_\_\_\_al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
422. rec\_\_\_\_\_on award *n.* the action or process of recognizing or being recognized, especially by remembering; an agreement that something is true or legal
423. flour made from gr\_\_n *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
424. the list was ar\_\_\_\_\_ed alphabetically *v.* to plan, prepare for, and carry out something
425. s\_\_k a lot of capital *v.* to submerge or go down below the surface of a liquid or substance; to decline or deteriorate; to cause something to go down into a liquid substance or sink into something else
426. a picture fr\_\_e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
427. pulse la\_\_r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
428. em\_\_\_\_\_ng technologies *adj.* starting to exist, mature, or become well-known
429. highly vi\_\_\_\_\_s substance *adj.* having a thick, sticky consistency between solid and liquid; exhibiting resistance to flow

ANSWERS: 421. functional, 422. recognition, 423. grain, 424. arrange, 425. sink, 426. frame, 427. laser, 428. emerging, 429. viscous

430. in\_\_\_\_ct with one another      *v.* to communicate or react with somebody
431. m\_\_t down gold      *v.* to turn from something solid into something soft or liquid as a result of heating
432. t\_\_k expedition      *n.* a long and difficult journey, typically on foot
433. unsung h\_\_o      *n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities
434. 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
435. the mouth of a b\_y      *n.* a part of the coast that is partially enclosed by land; a compartment or section of a ship or building
436. me\_\_\_\_or for death      *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
437. com\_\_\_\_\_ize idea      *v.* to make something available for sale or use on a large scale
438. op\_\_\_\_\_l fiber      *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
439. imp\_\_\_\_\_ly developed      *adv.* in a faulty or incomplete way

ANSWERS: 430. interact, 431. melt, 432. trek, 433. hero, 434. chip, 435. bay, 436. metaphor, 437. commercialize, 438. optical, 439. imperfectly

440. co\_\_\_\_\_al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
441. intelligence ag\_\_\_\_y *n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action
442. in\_\_\_\_\_ry control *n.* a complete list of all the items or goods held in stock by a business or organization; the act of making such a list
443. a cl\_\_\_\_\_r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
444. the great di\_\_\_\_\_ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
445. linear app\_\_\_\_\_te equation *adj.* nearly accurate or correct, but not completely so
446. b\_g bites *n.* any tiny insect; a fault or defect in a computer program, system, or machine
447. connecting the d\_ts *n.* a very small circular mark, especially one that is printed
448. pa\_\_\_\_\_l system *n.* a list of a company's employees and their salaries or wages; the total amount of money paid by a company to its employees regularly

ANSWERS: 440. communal, 441. agency, 442. inventory, 443. cluster, 444. discovery, 445. approximate, 446. bug, 447. dot, 448. payroll

449. a con\_\_\_\_\_nal style *adj.* based on or following traditional rules, standards, customs, etc.
450. co\_\_\_\_\_ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
451. 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
452. give si\_\_\_\_t consent *adj.* without any or little sound
453. prove unr\_\_\_\_\_le *adj.* not able to be trusted or depended on
454. se\_\_\_\_\_te boys and girls *v.* to separate or set apart from others, often based on race, gender, or some other characteristic
455. app\_\_\_\_\_te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
456. cr\_\_t arts of Japan *n.* an activity that requires a particular skill in making things with one's hands
457. ha\_\_\_\_\_on activity *adj.* actively involved, practical; having hands involved in the doing or making of something
458. nu\_\_\_\_\_r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

ANSWERS: 449. conventional, 450. construct, 451. develop, 452. silent, 453. unreliable, 454. segregate, 455. appreciate, 456. craft, 457. hands-on, 458. nuclear



459. pr\_\_\_\_\_le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
460. buy lo\_\_\_\_\_y *adv.* in or to a specific or limited area or region; focused or restricted to a particular locality or community
461. org\_\_\_\_\_ion chart *n.* a group of people who work together for a shared purpose
462. fa\_\_\_\_\_te an excuse *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
463. fo\_\_\_\_\_g knife *adj.* capable of being folded or bent; having one or more sections that can be folded or collapsed for easier storage or transportation
464. com\_\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
465. motion se\_\_\_\_r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
466. precious me\_\_l *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
467. intellectual f\_\_t *n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 459. principle, 460. locally, 461. organization, 462. fabricate, 463. folding, 464. complexity, 465. sensor, 466. metal, 467. feat

468. w\_x finish *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
469. mu\_\_\_\_\_ex telegraphy *n.* a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements
470. put a ha\_\_\_\_\_s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
471. pa\_\_\_\_\_n drive *n.* intense, driving, or overpowering feeling or conviction
472. a heavy sc\_\_\_\_\_le *n.* a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done
473. an indisputable lo\_\_c *n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments
474. de\_\_\_d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.

ANSWERS: 468. wax, 469. multiplex, 470. harness, 471. passion, 472. schedule, 473. logic, 474. defend

475. a\_t view *adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle
476. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
477. sta\_\_\_\_\_art technology *adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge
478. ex\_\_\_\_\_e in popularity *v.* to burst or break open violently and noisily; to cause something to burst or break open
479. di\_\_\_\_\_e money equally *v.* to separate or cause to separate into parts or groups
480. mi\_\_o bubble *n.* extremely small in scale or scope; one millionth
481. a political rev\_\_\_\_\_on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
482. 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
483. the in\_\_\_\_\_on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
484. pro\_\_\_\_\_on of disease *n.* the act or process of changing to the next stage or phase or moving forward
485. become ess\_\_\_\_\_ly same *adv.* relating to the essential features or concepts of anything

ANSWERS: 475. aft, 476. engineer, 477. state-of-the-art, 478. explode, 479. divide, 480. micro, 481. revolution, 482. structure, 483. invention, 484. progression, 485. essentially

486. ar\_\_\_\_n bakery

*n.* a skilled craftsperson or worker who produces handmade or traditionally crafted items, often using specialized tools or techniques; someone who is skilled in a particular trade or craft

ANSWERS: 486. artisan

## Session 3: Fill in the Blanks

1. The animal rights group worked to \_\_\_\_\_ the dolphins back into the wild.  
*v.* to set free or allow to escape from confinement
2. The two countries pledged to maintain the \_\_\_\_\_ between their two currencies.  
*n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference
3. Our skeleton outline of the \_\_\_\_\_ met with much opposition.  
*n.* a formal suggestion or offer, sometimes a written one
4. The teacher will not \_\_\_\_\_ any students to leave the classroom early.  
*v.* to allow for something to happen or be done; (noun) the act of giving a formal, usually written, authorization
5. The sun's \_\_\_\_\_ shone through the window and illuminated the room.  
*n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
6. The \_\_\_\_\_ generator was essential during the camping trip.  
*adj.* easily moved or carried; able to be transported from one location to another
7. My initial reaction was to \_\_\_\_\_.  
*v.* to show that one is not willing to do or accept something
8. Her research team made an important \_\_\_\_\_.  
*n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 1. release, 2. differential, 3. proposal, 4. permit, 5. beam, 6. portable, 7. refuse, 8. discovery

9. The development of new \_\_\_\_\_ techniques has revolutionized the field of nanotechnology.
- n.* the scientific study and measurement of measurements, standards, and units of physical quantities, particularly about their accuracy and precision
10. The company is trying to \_\_\_\_\_ its new product.
- v.* to make something available for sale or use on a large scale
11. Mining is a \_\_\_\_\_ source of income for the country.
- adj.* most important or primary; (noun) a person who is in charge
12. After the airing of the TV commercial, many people accessed the website, and the \_\_\_\_\_ went down.
- n.* a computer program or a device from which other computers get information; a person who serves food in a restaurant
13. He should \_\_\_\_\_ more with his colleagues.
- v.* to communicate or react with somebody
14. Management must take \_\_\_\_\_ responsibility for the accident.
- adj.* furthest or highest in degree or order
15. The MRI machine uses \_\_\_\_\_ to produce images of the body's internal organs.
- n.* an object or substance that can attract certain materials, such as iron or steel
16. She is the president of a large international \_\_\_\_\_.
- n.* a group of people who work together for a shared purpose

ANSWERS: 9. metrology, 10. commercialize, 11. chief, 12. server, 13. interact, 14. ultimate, 15. magnets, 16. organization

17. The brain is an incredibly complex organ that controls the body's \_\_\_\_\_.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
18. Please \_\_\_\_\_ these files as we start a new project tomorrow.
- v.* to change the order or position of things already made; to change the time, date, or place of an event already planned
19. He \_\_\_\_\_ that she pay her debt to the last penny.
- v.* to say something clearly or demand something forcefully, especially when other people disagree with or oppose what you say
20. Pakistan's \_\_\_\_ budget was still being reviewed.
- n.* things sent to help countries in need, notably food or money; support
21. Her \_\_\_\_\_ for cooking is evident in every dish she prepares.
- n.* intense, driving, or overpowering feeling or conviction
22. He had a good \_\_\_\_ of the city and could easily find his way around.
- n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
23. The construction company \_\_\_\_\_ the building with an earthquake-resistant device.
- v.* to provide a person or a place with the things that are needed for a particular purpose or activity

ANSWERS: 17. function, 18. rearrange, 19. insisted, 20. aid, 21. passion, 22. ken, 23. equipped

24. He was served with a \_\_\_\_\_ of eviction, giving him the notice to vacate the property.

*n.* a written legal order or command

25. The painting is \_\_\_\_\_ and there is no other like it.

*adj.* being the only one of its kind; unlike anything else

26. The company holds patents on core components of \_\_\_\_\_ jet printers.

*n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

27. The flying car is presently in the \_\_\_\_\_ stage.

*n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

28. The \_\_\_\_\_ format provided a useful guide for creating the budget.

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

29. He \_\_\_\_\_ hypotheses that no mathematician has ever imagined before.

*v.* to build or create something; to assemble or combine different parts to form something whole

30. I'm a big \_\_\_ of French food.

*n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

31. Efficiency isn't an essential \_\_\_\_\_ here; fairness is.

*n.* a fundamental law or truth that explains or controls how something happens or works

ANSWERS: 24. writ, 25. unique, 26. laser, 27. prototype, 28. template, 29. constructs, 30. fan, 31. principle



32. The light \_\_\_\_\_ has burned out.

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

33. She is known in the community as a skilled \_\_\_\_\_ in pottery.

- n.* a skilled craftsman or worker who produces handmade or traditionally crafted items, often using specialized tools or techniques; someone who is skilled in a particular trade or craft

34. Change is also occurring in Turkey as a result of \_\_\_\_\_ reform.

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

35. That adventurer traveled in \_\_\_\_\_ of buried treasure.

- n.* a long or challenging search for something

36. The discovery of a critical bug caused the company to delay the \_\_\_\_\_ release.

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

37. The \_\_\_\_\_ will repair my telephone tomorrow morning.

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

38. He has a flair for \_\_\_\_\_.

- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

39. DNA is stored in the \_\_\_\_\_ of a cell.

- n.* the central and most important part of something; (biology) a part of the cell containing DNA and RNA and responsible for growth and reproduction; (physics) the very dense central region of an atom

ANSWERS: 32. bulb, 33. artisan, 34. chaotic, 35. quest, 36. app's, 37. engineer, 38. mathematics, 39. nucleus

40. There's no \_\_\_\_\_ in his description.

*n.* a way of thinking or reasoning conducted or evaluated by strict validity principles; the study of correct reasoning or good arguments

41. The \_\_\_\_\_ size shirt fits him perfectly.

*adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information

42. The mobile phone was still \_\_\_\_\_ even after being dropped.

*adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

43. Big techs are now eager to develop \_\_\_\_\_ computers.

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

44. His hometown was where he first acquired the \_\_\_\_\_ of wood carving.

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

45. This automatic door could no longer be opened due to a \_\_\_\_\_ failure.

*n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

46. She kept \_\_\_\_\_ for an ambulance.

*v.* to give a loud, high shout suddenly, especially because of fear, anger, excitement, etc.; to utter or declare in a very loud voice

47. The weather forecast includes a \_\_\_\_\_ of the high and low temperatures for the next week.

*n.* the act of calculating or guessing, or the state of being estimated; any solid shape or object that juts out from something; an image on a screen cast from something

ANSWERS: 40. logic, 41. medium, 42. functional, 43. quantum, 44. craft, 45. sensor, 46. screaming, 47. projection

48. \_\_\_\_\_ elections were held in several European countries.  
*adj.* belonging to or used by a group rather than individuals; for common use
49. The construction worker used a \_\_\_\_\_ saw to cut through the stubborn sheet metal.  
*n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
50. The spacecraft reentered the Earth's atmosphere at \_\_\_\_\_ speeds.  
*adj.* relating to or having a speed above the speed of sound (roughly 767 miles per hour or 1,235 kilometers per hour at sea level)
51. The school board decided to \_\_\_\_\_ students by the ability to meet their needs better.  
*v.* to separate or set apart from others, often based on race, gender, or some other characteristic
52. The developer's \_\_\_\_\_ of the old factory into a modern loft apartment complex was a major success.  
*n.* the act or process of changing something from one thing to another; the state of being changed
53. He had a special \_\_\_\_\_ for public relations  
*n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
54. The company's casual and \_\_\_\_\_ work environment encourages creativity and collaboration.  
*adj.* relaxed, casual, or unofficial in style or manner; not ceremonious or strict in adherence to rules or conventions; suitable for ordinary or everyday occasions

ANSWERS: 48. Communal, 49. metal, 50. supersonic, 51. segregate, 52. conversion, 53. antenna, 54. informal

55. The couple began to \_\_\_\_\_ over which restaurant to go to for dinner.
- v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
56. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
57. The project's \_\_\_\_\_ outlined the goals and requirements for the team to complete.
- n.* a detailed description of the characteristics, features, or requirements of something, typically a product or system; a written statement that outlines the standards, procedures, or requirements for a project or job
58. The rain and thunder are \_\_\_\_\_ today.
- adj.* stupid or not sensible; very angry
59. The \_\_\_\_\_ of people who do not own property is politically impotent.
- n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
60. The investigation \_\_\_\_\_ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
61. The funeral director explained the process of how they \_\_\_\_\_ remains after cremation.
- v.* to bury or place a dead body in a tomb or grave; to temporarily detain or imprison someone; (prefix) between or among

ANSWERS: 55. argue, 56. chemistry, 57. specifications, 58. crazy, 59. mass, 60. involves, 61. inter

62. Despite his many achievements, he remained \_\_\_\_\_ and down-to-earth.

*adj.* having or showing a humble estimate of one's merits, importance, etc.; free from vanity, egotism, boastfulness, or great pretensions

63. 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

64. The \_\_\_\_\_ liquid poured slowly from the jar.

*adj.* having a thick, sticky consistency between solid and liquid; exhibiting resistance to flow

65. He made a desperate effort to \_\_\_\_\_ an airliner.

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

66. A business plan is a \_\_\_\_\_ for your success.

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

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

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

68. 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

69. By incorrect assumption, statistics can be notoriously \_\_\_\_\_.

*adj.* not able to be trusted or depended on

ANSWERS: 62. modest, 63. nanoscale, 64. viscous, 65. hijack, 66. blueprint, 67. severe, 68. structure, 69. unreliable

70. A \_\_\_\_\_ engineer is still in demand in many companies.  
*adj.* operated by a machine, relating to or concerned with machinery or tools
71. This process all happens within a \_\_\_\_\_.  
*n.* one millionth (= 0.000,001) of a second
72. The company's hiring criteria emphasize personality, not a person's \_\_\_\_\_.  
*n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
73. The antique \_\_\_\_\_ was worth thousands of dollars.  
*n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
74. 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
75. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.  
*adj.* of or relating to the magnetism produced by electric charge in motion
76. The \_\_\_\_\_ flew over the ocean at high speed, reaching its destination in hours.  
*n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
77. The earthquake caused a \_\_\_\_\_ of lumber to crumble noisily.  
*n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

ANSWERS: 70. mechanical, 71. microsecond, 72. background, 73. doll, 74. process, 75. electromagnetic, 76. jet, 77. stack

78. Gold is a \_\_\_\_\_ meaning its value is interchangeable with other gold of the same quality and quantity.  
*adj.* able to be replaced or exchanged with another identical item; uniform and interchangeable in value or use
79. The new drug was developed using a \_\_\_\_\_ formula that targets specific cells in the body.  
*n.* a molecule made up of two or more amino acids linked in a chain, found in the structure of proteins
80. This electronic \_\_\_\_\_ is required to undergo periodic inspections to ensure precision.  
*n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
81. We use adverbs to \_\_\_\_\_ verbs and adjectives.  
*v.* to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
82. The gaming \_\_\_\_\_ was the missing piece I needed to enjoy my video games fully.  
*n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
83. Her resistance \_\_\_\_\_ under his persuasion.  
*v.* to turn from something solid into something soft or liquid as a result of heating
84. The \_\_\_\_\_ leaders gathered for a summit to discuss important issues.  
*adj.* relating to a social group or tribe, especially a preliterate society

ANSWERS: 78. fungible commodity, 79. peptide-based, 80. instrument, 81. modify, 82. controller, 83. melted, 84. tribal

85. The phone rang at the most \_\_\_\_\_ time.

*adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

86. Can you \_\_\_\_\_ 123321 by eleven?

*v.* to separate or cause to separate into parts or groups

87. The military regime has promised to \_\_\_\_\_ democracy as soon as possible.

*v.* to repair or return something or someone to a previous good state or position

88. The \_\_\_\_\_ chairs were easy to set up and take down for the event.

*adj.* capable of being folded or bent; having one or more sections that can be folded or collapsed for easier storage or transportation

89. I found a stink \_\_\_\_ crawling across the ceiling.

*n.* any tiny insect; a fault or defect in a computer program, system, or machine

90. The issue of divorce \_\_\_\_\_ large in his mind.

*v.* to appear or take shape as a large, especially in a frightening way

91. We need to \_\_\_\_\_ our products in an attractive way to attract customers.

*v.* to exhibit or show something to others, often to attract attention or demonstrate its features, properties, or value

92. The detective discovered that the witness had \_\_\_\_\_ her story about the crime.

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

ANSWERS: 85. opportune, 86. divide, 87. restore, 88. folding, 89. bug, 90. loomed, 91. display, 92. fabricated



93. The researcher demonstrated the superiority of quantum \_\_\_\_\_ in several mathematical tasks.
- n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
94. The outermost electron shell of an \_\_\_\_\_ determines its chemical characteristics.
- n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
95. We \_\_\_\_\_ in a souvenir shop.
- v.* to shop around in a leisurely and casual way; to look through a book, magazine, Internet, etc., casually and randomly, without seeking anything in particular; (of an animal) to feed on plants
96. We must complete all of these courses in the following \_\_\_\_\_.
- n.* one of the periods that the school or university divided into, especially in the US and Australia; a half-year term
97. 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
98. She's on the \_\_\_\_\_ of adulthood.
- n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
99. Many people worry that the current real estate market is a \_\_\_\_\_ that could burst soon.
- n.* a thin, round, and often transparent mass of gas that is surrounded by a thin layer of liquid; a state of economic or social prosperity that is unsustainable and eventually collapses

ANSWERS: 93. computation, 94. atom, 95. browsed, 96. semester, 97. device, 98. threshold, 99. bubble

100. People have been exploring ways to \_\_\_\_\_ natural forces and resources since ancient times.

- v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

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

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

102. The restaurant sources its ingredients \_\_\_\_\_ ensuring freshness and supporting local farmers.

- adv.* in or to a specific or limited area or region; focused or restricted to a particular locality or community

103. The ground acts as an \_\_\_\_\_ barrier against outside sounds.

- adj.* relating to sound or the sense of hearing

104. Unfortunately, the company went \_\_\_\_\_ and had to close its doors permanently.

- adj.* unable to pay one's debts; having been reduced to a state of financial ruin; lacking in something essential or fundamental

105. 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

106. The \_\_\_\_\_ workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.

- adj.* actively involved, practical; having hands involved in the doing or making of something

ANSWERS: 100. harness, 101. discipline, 102. locally, 103. acoustic, 104. bankrupt, 105. microns, 106. hands-on

107. He bought a new \_\_\_\_\_ to attach the strap to his watch.

- n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

108. The famous \_\_\_\_\_ used various tools to carve the marble into the desired shape.

- n.* an artist who creates sculptures, three-dimensional objects, or forms

109. He made the old \_\_\_\_\_ coins shine.

- n.* a chemical element that is a soft, malleable, and ductile metal with very high thermal and electrical conductivity

110. The company's \_\_\_\_\_ department processed the paychecks every two weeks.

- n.* a list of a company's employees and their salaries or wages; the total amount of money paid by a company to its employees regularly

111. The detective looked for fingerprints on the window \_\_\_\_\_.

- n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

112. Trains are \_\_\_\_\_ inexpensive, and ideal for long-distance travel.

- adj.* worthy of being relied on; trustworthy

113. The software can \_\_\_\_\_ and decode encrypted messages.

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

114. I made a \_\_\_\_\_ box to store my winter clothes in.

- n.* a stiff, thick material made from compressed paper pulp used to make boxes and other packaging materials

ANSWERS: 107. stud, 108. sculptor, 109. copper, 110. payroll, 111. frame, 112. reliable, 113. encode, 114. cardboard

115. A \_\_\_\_\_ of grapes hung from the vine.

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

116. All language around the world is consistently \_\_\_\_\_ but not intrusive.

- adj.* able to come up with novel and unique ideas

117. The wall was made of hard \_\_\_\_\_ that had been used for centuries.

- n.* a rectangular block of baked clay used as a building material

118. The abandoned ship slowly began to \_\_\_\_\_ into the murky waters of the harbor.

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

119. The military \_\_\_\_\_ between the two countries created tension in the international community.

- n.* the state of a cooperative relationship between people or groups, especially in business

120. 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

121. I like to \_\_\_\_\_ my phone case with a picture of my dog.

- v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

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

- v.* to make a mathematical calculation

ANSWERS: 115. cluster, 116. inventive, 117. bricks, 118. sink, 119. partnership, 120. recognition, 121. personalize, 122. compute

123. The wallpaper had a pattern of pink \_\_\_\_\_ on a white surface.  
*n.* a very small circular mark, especially one that is printed
124. The \_\_\_\_\_ force of the earth keeps our planet spinning.  
*adj.* having the properties of attracting or repelling certain materials containing iron or steel
125. IBM has consistently been a significant supplier of \_\_\_\_\_ for a long time.  
*n.* a large and powerful computer with a lot of memory used primarily by large organizations for critical applications
126. The new \_\_\_\_\_ cinema has 12 screens showing the latest movies.  
*n.* a cinema complex with several screens or theaters showing different films at the same time; an electronic device that allows several signals to be transmitted or processed simultaneously through a single channel; (adjective) relating to or consisting of multiple interconnected parts or elements
127. International law allows each nation to \_\_\_\_\_ itself when its rights and interests are illegally violated.  
*v.* to protect someone or something from attack, criticism, danger, etc.
128. The body needs a certain amount of \_\_\_\_\_ to build and repair tissues.  
*n.* a molecule made up of a long chain of amino acids, which is essential for the structure and function of the body's tissues
129. What is the entry \_\_\_\_\_ for this course?  
*n.* something that is needed or wanted
130. Gödel's incompleteness \_\_\_\_\_ prove the limitations of formal systems, including mathematical ones.  
*n.* a statement or proposition that can be demonstrated or proved to be true, typically by logical or mathematical reasoning

ANSWERS: 123. dots, 124. magnetic, 125. mainframes, 126. multiplex, 127. defend, 128. protein, 129. requirement, 130. theorems

131. The store manager took \_\_\_\_\_ of the products on the shelves to know what needed restocking.

*n.* a complete list of all the items or goods held in stock by a business or organization; the act of making such a list

132. The federal \_\_\_\_\_ is planning to increase taxes for the next fiscal year.

*n.* the group of people with authority to control a country or state

133. The findings of the experiment were both \_\_\_\_\_ and unexpected.

*adj.* causing a lot of interest or excitement

134. Many countries have now agreed to a treaty banning the use of \_\_\_\_\_ weapons.

*adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy

135. He wandered the \_\_\_\_\_ between life and death by gunfire.

*n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places

136. Melanoma in \_\_\_\_\_ is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.

*adj.* short for "situated," meaning located or placed in a particular position or circumstance

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

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

138. He had always been interested in sumo \_\_\_\_\_ and decided to try it.

*n.* a sport in which two contestants grapple and try to throw each other to the ground

ANSWERS: 131. inventory, 132. government, 133. exciting, 134. nuclear, 135. boundary, 136. situ, 137. Essentially, 138. wrestling

139. Dolphins use sound to \_\_\_\_\_ with each other.

- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

140. Launching an artificial \_\_\_\_\_ contributed to the technological development of our country.

- n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

141. She is very \_\_\_\_\_ in her thoughts.

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

142. The couple promised each other \_\_\_\_\_ in their marriage vows.

- n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something

143. 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

144. 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

145. Mercury is the closest \_\_\_\_\_ to the sun.

- n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 139. communicate, 140. satellite, 141. conventional, 142. fidelity, 143. chip, 144. feat, 145. planet

146. Human behavior has \_\_\_\_\_ characteristics.

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

147. Ordinary air purifiers cannot adequately remove pollen \_\_\_\_\_.

*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

148. I decided to seek counseling on the advice of my \_\_\_\_\_.

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

149. The \_\_\_\_\_ management approach could have been more effective in implementing organizational changes.

*adj.* controlled or implemented from the highest level of authority or management

150. \_\_\_\_\_ is the foundation of our economy.

*n.* the practice or science of cultivating the land or raising stock

151. He created an \_\_\_\_\_ shaped torso.

*adv.* in a faulty or incomplete way

152. The \_\_\_\_\_ announcing an enemy attack went off this morning.

*n.* a loud noise or an automatic signal that warns people of danger; a device that signals the occurrence of some undesirable event or particular danger

153. The jury must \_\_\_\_\_ a decision on this complex case.

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

ANSWERS: 146. fundamental, 147. grains, 148. colleague, 149. top-down, 150. Agriculture, 151. imperfectly, 152. alarm, 153. render



154. She walked along the \_\_\_\_ and collected shells.  
*n.* a part of the coast that is partially enclosed by land; a compartment or section of a ship or building
155. He was the first \_\_\_\_\_ in the military training camp.  
*n.* a close friend; a partner, especially one of a pair or team
156. The \_\_\_\_\_ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.  
*n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
157. Political corruption was common throughout the postwar \_\_\_\_\_.  
*n.* a period that is distinct from others, typically in history
158. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.  
*n.* a workplace for the conduct of scientific research; a laboratory
159. The old entrance area is now \_\_\_\_\_.  
*adj.* not being used, or never having been used
160. If necessary, you can \_\_\_\_\_ the front seats forward.  
*v.* to move or cause to move smoothly along a surface without interruption
161. In junior high school, we had to dissect a frog in \_\_\_\_\_ class.  
*n.* the scientific study of life and the natural processes of living things
162. The feeling among the company's \_\_\_\_\_ is that the CEO is not radical enough.  
*adj.* of or relating to the ordinary people in a society or an organization as constituting a fundamental political and economic group

ANSWERS: 154. bay, 155. buddy, 156. plot, 157. era, 158. lab, 159. unused, 160. slide, 161. biology, 162. grassroots

163. \_\_\_\_\_ technologies have dramatically improved productivity in various industries.  
*adj.* starting to exist, mature, or become well-known
164. 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
165. The \_\_\_\_\_ value of Pi is approximately 3.14.  
*adj.* relating to, expressed, or denoted by a number
166. The car's front bumper cost fifteen hundred \_\_\_\_\_.  
*n.* the standard unit of money in the UK; the standard unit of weight equal to 16 ounces
167. The content is \_\_\_\_\_ and informative for me.  
*adj.* sharply exact or accurate or delimited
168. The company \_\_\_\_\_ employees to buy low-price items without approval to achieve efficient purchasing.  
*v.* to give someone the power or authority to do something
169. 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
170. Mercury thermometers are a type of \_\_\_\_\_ sensor.  
*adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

ANSWERS: 163. Emerging, 164. distance, 165. numerical, 166. pounds, 167. precise, 168. empowered, 169. develop, 170. analog

171. Please refrigerate the meat, or it will \_\_\_\_\_.

*v.* to decay, or cause something to decay, naturally and gradually

172. The hospital has \_\_\_\_\_ equipment and facilities to ensure the best healthcare for its patients.

*adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge

173. 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

174. 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

175. She \_\_\_\_\_ her parents to let her go to the concert.

*v.* to ask for something urgently or earnestly; to appeal to someone to do something

176. His \_\_\_\_\_ style frequently sparked controversies.

*adj.* arousing anger, interest, or another strong reaction, especially deliberately

177. It's important to \_\_\_\_\_ your strengths and weaknesses.

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

178. She keeps a \_\_\_\_\_ in a birdcage as a pet.

*n.* a tropical bird with a curved beak and the ability to mimic sounds, often kept as a pet and trained to copy the human voice

ANSWERS: 171. rot, 172. state-of-the-art, 173. intelligence, 174. complexity, 175. begged, 176. provocative, 177. recognize, 178. parrot

179. His class will cover an introduction to agricultural \_\_\_\_\_.
- n.* the branch of social science that deals with the production, consumption, and transfer of goods and services
180. These synthetic \_\_\_\_\_ are used in military vests because of their excellent abrasion resistance.
- n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
181. His estate was \_\_\_\_\_ to his sons.
- v.* to give something to a large number of individuals, or to spread or furnish something
182. \_\_\_\_\_ 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)
183. He was preparing for a long \_\_\_\_\_ through the mountains.
- n.* a long and difficult journey, typically on foot
184. 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
185. 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
186. The old \_\_\_\_\_ on the farm was used to store hay and other equipment.
- n.* a large farm building used for storage of crops or housing livestock

ANSWERS: 179. economics, 180. fabrics, 181. distributed, 182. Molecular, 183. trek, 184. transistor, 185. integrate, 186. barn

187. The nation's healthcare system is in \_\_\_\_\_ at the moment.

*n.* the process or period of changing from one state or circumstance to another

188. 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

189. So far, the meeting is going according to \_\_\_\_\_.

*n.* a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done

190. Many consumers prefer \_\_\_\_\_ streaming services over traditional cable TV.

*adj.* available as needed or requested, often referring to products or services that can be accessed or delivered instantly or with minimal delay

191. The \_\_\_\_\_ of the building was cracked and needed to be repaired.

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

192. I wrote a \_\_\_\_\_ at the bottom of the invitation, informing guests to bring their drinks.

*n.* (also denoted as "P.S. ") an additional remark or note added at the end of a letter or other document after the main body has been completed; something that is added as an afterthought or supplemental information

193. Many \_\_\_\_\_ areas are still impoverished.

*adj.* of or relating to the countryside

ANSWERS: 187. transition, 188. digital, 189. schedule, 190. on-demand, 191. foundation, 192. postscript, 193. rural

194. You should not \_\_\_\_\_ yourself by allowing them to use you.

- v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

195. He sealed the letter with a \_\_\_\_ seal.

- n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

196. She expressed her thought in an artful choice of \_\_\_\_\_.

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

197. The \_\_\_\_\_ illusion made it appear like the building was floating in midair.

- adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

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

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

199. His \_\_\_\_\_ on the effects of climate change won several awards.

- n.* a written essay, especially one submitted for a university degree, that sets out the author's findings on a particular subject

200. The government \_\_\_\_\_ regulated the country's food and drug safety standards.

- n.* an organization or business that is responsible for specific activities or services, especially when representing other organizations or businesses; the capacity or power to act or exert influence; the ability to make decisions and take action

ANSWERS: 194. degrade, 195. wax, 196. metaphors, 197. optical, 198. progression, 199. thesis, 200. agency

201. A smaller car will \_\_\_\_\_ less fuel.

*v.* to spend something, especially fuel, energy, or time, in a large amount

202. The politician remained \_\_\_\_\_ despite intense media scrutiny.

*adj.* without any or little sound

203. A diversified plant species generally enhances beneficial \_\_\_\_\_ populations.

*n.* a tiny living thing

204. Please \_\_\_\_\_ your voice so that the baby can sleep.

*v.* to make or become silent, especially by urging or persuading others to be quiet or by speaking softly or gently; to keep something secret or confidential

205. I need to \_\_\_\_\_ plans with him for the celebration.

*v.* to plan, prepare for, and carry out something

206. We must enter a six-\_\_\_\_\_ number to unlock the safe.

*n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe

207. He \_\_\_\_\_ jumped out of his chair when he heard the news.

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

208. \_\_\_\_\_ is better than argument.

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

209. 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;

ANSWERS: 201. consume, 202. silent, 203. organism, 204. hush, 205. arrange, 206. digit, 207. literally, 208. Proof, 209. revolution

210. Bamboo will soon \_\_\_\_\_ the other plants.

- v.* to grow too large for something; to grow taller or faster than another person

211. Our company decided to hire an advisor who specializes in \_\_\_\_\_.

- n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

212. This approach employs both \_\_\_\_\_ and macro analysis methods.

- n.* extremely small in scale or scope; one millionth

213. During colonial eras, new migratory patterns \_\_\_\_\_.

- v.* to move out of or away from something and become visible

214. The \_\_\_\_\_ airport runways may accommodate larger jets.

- adj.* longer than usual or anticipated

215. The \_\_\_\_\_ of classical literature includes works by Shakespeare, Chaucer, and Homer.

- n.* a set of rules, principles, or standards by which something is judged or measured

216. Companies often \_\_\_\_\_ their shares to lower the stock price and encourage investors to buy.

- v.* to divide, or to make something divide into two or more parts, especially along a particular line

217. The \_\_\_\_\_ cost of the project was estimated to be around \$500,000.

- adj.* nearly accurate or correct, but not completely so

ANSWERS: 210. outgrow, 211. finance, 212. micro, 213. emerged, 214. extended, 215. canon, 216. split, 217. approximate



218. He continued his investigation and soon \_\_\_\_\_ another crime.
- v.* to remove the cover from something; to discover something previously unseen or hidden
219. When a company discloses information to the market, an \_\_\_\_\_ auditor verifies them.
- adj.* belonging to or situated outside of someone or something
220. 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
221. The teacher attempted to \_\_\_\_\_ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
222. The customs agents seized the \_\_\_\_\_ shipment.
- adj.* not allowed by law
223. I bought a new tool \_\_\_\_ for my home repair projects.
- n.* a set of tools, supplies, or equipment for a particular purpose
224. The \_\_\_\_\_ of the earthquake was measured at 7.8 on the Richter scale.
- n.* the extent, level, importance, or amount of something
225. I'll \_\_\_\_\_ the online store to see if I can find that item in a different color.
- v.* to ride on or through waves while standing or lying down on a board or other object; to search or browse the Internet or other computer networks in a casual or aimless manner

ANSWERS: 218. uncovered, 219. external, 220. molecule, 221. analyze, 222. illegal, 223. kit, 224. magnitude, 225. surf

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

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

227. 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

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

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

229. \_\_\_\_\_ advances have disrupted many industries.

- adj.* based on scientific and industrial progress

230. The \_\_\_\_ section of the ship suffered significant damage after the collision with the reef.

- adj.* (the opposite of "forward") located at or towards the rear or back of a ship, aircraft, or other vehicle

231. The unique style of this martial arts \_\_\_\_\_ many action film producers.

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

232. We would \_\_\_\_\_ an early reply.

- v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone

ANSWERS: 226. exploded, 227. invest, 228. expression, 229. Technological, 230. aft, 231. inspired, 232. appreciate

233. The soldier who sacrificed his life for his country is considered a national \_\_\_\_\_.  
*n.* a person who is admired or idealized for courage, outstanding achievements, or noble qualities; a character in literature or history who is central to the plot and who exhibits heroic qualities
234. Using a password manager can act as a \_\_\_\_\_ against hackers who try to steal your personal information.  
*n.* a device, material, or person that reduces the impact or effect of an external force or provides protection against harm or damage
235. The nonprofit organization's \_\_\_\_\_ program helps the homeless community by providing necessities.  
*n.* an effort to extend help or services to people who may not be aware of them, often in a targeted manner; the process of establishing connections and communication with a wider community or audience; (verb) to reach out or make contact with people or groups to offer help, support, or information
236. The experiment was \_\_\_\_\_ several times to ensure accuracy.  
*v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
237. The \_\_\_\_\_ session of the Diet opened.  
*adj.* not different, exceptional, or unexpected in any way, especially in quality, ability, size, or degree
238. 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
239. Doctors use \_\_\_\_\_ lasers to treat certain eye conditions.  
*n.* a type of molecule that is formed through the combination of an excited atom or molecule with a ground-state atom or molecule, often used in medical and scientific applications, such as lasers and fluorescent dyes

ANSWERS: 233. hero, 234. buffer, 235. outreach, 236. replicated, 237. ordinary, 238. assembly, 239. excimer

240. The \_\_\_\_\_ baby was small but healthy.

*adj.* occurring or done too early; happening before the appropriate time; born before the end of a full-term pregnancy

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

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

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

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

243. The wind \_\_\_\_\_ were spinning rapidly, generating clean energy for the nearby town.

*n.* a machine that rotates to generate power from fluids such as water or gas

ANSWERS: 240. premature, 241. invention, 242. extraordinary, 243. turbines