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Vocabulary Builder Reference from...

Sajan Saini: How do self-driving cars "see"? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

pitch

n. the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something

synonym : angle, gradient, slope

(1) make a **pitch** for a new product, (2) a low- **pitched** sound

Her voice gradually increased in **pitch**.

suddenly

adv. quickly and unexpectedly

synonym : abruptly, unexpectedly, unawares

(1) **suddenly** attacked by an enemy, (2) die **suddenly**

Who answers **suddenly** knows little.

hazard

n. something dangerous and likely to cause damage

synonym : peril, danger, threat

(1) occupational **hazard**, (2) potential health **hazards**

Lost mobile phones lead to another potential **hazard** regarding privacy.

navigate

v. to plan and direct the way that a ship, plane, etc. will travel, often by using a map

synonym : guide, helm, voyage

(1) **navigate** the Pacific, (2) **navigate** through a document
Our knowledge helps **navigate** our clients successfully.

onslaught

n. a fierce or violent attack; a sudden and intense outburst of something, usually negative

synonym: attack, assault, charge

(1) **onslaught** of criticism, (2) urban **onslaught**

The village was unprepared for the sudden **onslaught** of the enemy army.

obstacle

n. a thing that blocks one's way or prevents or hinders progress

synonym: hindrance, barrier, block

(1) an **obstacle** to progress, (2) **obstacle** avoidance

The **obstacle** course was challenging but fun.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

glean

v. to collect information, knowledge, etc., in small amounts and often with difficulty; to gather, as natural products

synonym: cull, collect, extract

(1) **glean** important information, (2) **glean** the fields

He carefully interviewed the victims and tried to **glean** the details of the culprit.

algorithm

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

synonym: logic, method, rule

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

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

- 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.
- resolve** *v.* to find a suitable answer to the problems or difficulty
synonym : decide, determine, fix
(1) **resolve** a dispute, (2) **resolve** the computer error
This company **resolves** its battery problem completely.
- environment** *n.* the natural world such as air, water, and land in which humans, animals, and plants live
synonym : atmosphere, surroundings, climate
(1) **environment** affairs, (2) chaotic **environment**
Every human is responsible for taking care of the Earth's **environment**.
- 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.
- 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.
- probe** *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission

to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym : investigation, inquiry, examination

(1) a lunar **probe**, (2) **probe** for inside information

NASA sent a **probe** to study the atmosphere of Jupiter.

miniature

adj. being on a very small scale

synonym : mini, scaled-down, pint-sized

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

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

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.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym : buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

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.

photon

n. a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation

synonym : particle, quantum, light

(1) **photon** emission, (2) **photon** energy

Infrared cameras detect **photons** in the infrared range of the electromagnetic spectrum.

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym : connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

radar

n. a technology that employs radio waves to locate items that cannot be seen

synonym : sonar, radiolocation

(1) **radar** air traffic control, (2) **radar** scanning

Radar systems cannot spot the submarine.

aviation

n. the activity or process of designing, building, flying, and maintaining aircraft

synonym : flying, flight, aeronautics

(1) global **aviation** industry, (2) civil **aviation**

The **aviation** expert analyzed the fluid around the aircraft.

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

launch

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

synonym : start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym : beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym : oven, waveguide, radar range

(1) **microwave** radiation, (2) **microwave** popcorn

I heated my leftover food in the **microwave** oven, which tasted just as good as freshly cooked.

locate

v. to specify or determine the exact position of someone or something

synonym : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

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.

bounce

v. to cause to move up or away after hitting a surface; to spring back

synonym: bound, leap, spring

(1) **bounce** across the floor, (2) **bounce** back from failure
They will **bounce** between various emotional states.

visualize

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

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space
She tried to **visualize** the layout of the new house in her mind.

contrast

v. to put in opposition to show or emphasize differences

synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things
It's intriguing to compare and **contrast** the two authors.

detection

n. the act of discovering or identifying the presence of something

synonym: discovery, identification, recognition

(1) **detection** by the security software, (2) importance of early **detection**
This smartphone has a collision **detection** function.

invisible

adj. impossible or nearly impossible to see

synonym: hidden, imperceptible, unseen

(1) an **invisible** asset, (2) **invisible** stars
The phenomenon is **invisible** at optical wavelengths.

infrared

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter

than that of microwave radiation, used for sensing heat and for remote control

synonym : thermal, warm, radiant

(1) an **infrared** lamp, (2) **infrared** radiation

The **infrared** camera revealed a hidden image on the surface.

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.

pedestrian

n. a person who is in the street, especially in an area where vehicles go

synonym : walker, footer

(1) **pedestrian** accident, (2) **pedestrian** safety

A **pedestrian** is an uncommon sight in this area.

determinant

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

synonym : cause, factor, element

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

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

depth

n. the distance between the top and bottom of something; between the top surface and a distance below it

synonym : deepness, profoundness, extent

(1) **depth** camera, (2) the **depth** of the water

The pond's **depth** was around five feet.

moose

n. a large deer native to the northern forests of North America and Eurasia

synonym : elk, deer, antelope

(1) **moose** hunting, (2) **moose** population

The antlers of a bull **moose** can grow up to 6 feet in width and weigh over 60 pounds.

scatter

v. to cause to separate and go in different directions

synonym : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

antler

n. a branched, bony growth that protrudes from the forehead of male deer, elk, and moose and that is shed and regrown annually

synonym : horn, branch

(1) branches of an **antler**, (2) shedding **antlers**

The deer's **antlers** were an impressive sight to see in the forest.

tip

n. the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

synonym : edge, advice, gratuity

(1) the **tip** of a paintbrush, (2) give the waiter a **tip** .

I will introduce some **tips** on learning English in this class.

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.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

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

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

unstable

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

synonym : shaky, unbalanced, inconsistent

(1) mentally **unstable**, (2) **unstable** weather

The tower proved to be **unstable** in the high wind.

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.

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.

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.

precision

n. the quality or condition of being exact and accurate

synonym : accuracy, exactness, rigor

(1) a **precision** instrument, (2) speak with **precision**

This operation requires both patience and **precision**.

picosecond

n. a unit of time that is equal to one trillionth (10^{-12}) of a second

synonym : trillionth of a second

(1) **picosecond** resolution, (2) **picosecond** pulse

The computer processor can execute instructions in a **picosecond**.

mod

n. a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

synonym : alteration, modification, tweak

(1) **mod** culture, (2) a house with **mod** cons

The **mod** for the video game added new features and improved gameplay.

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.

advantage

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

synonym : benefit, edge, asset

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

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

property

n. a thing or things that belong to someone

synonym : belongings, possessions, equity

(1) a man of **property**, (2) chemical **property**

He stood to inherit a million-dollar **property**.

interference

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

and influenced with

synonym : obstruction, hindrance, impedance

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

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

pebble

n. a small, smooth, rounded rock, especially one worn by the action of water

synonym : rock, stone, cobble

(1) drop a **pebble** into a pond, (2) **pebble** pathway

She picked up a **pebble** from the beach and put it in her pocket as a souvenir.

pond

n. a small, shallow lake

synonym : lake, pool, basin

(1) a garden **pond**, (2) **pond** water

The freshwater **pond** was home to many different types of fish and was a popular spot for fishing.

ripple

n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

synonym : wave, undulation, fluctuation

(1) a **ripple** of laughter, (2) **ripple** in the water

Many businesses felt the **ripple** effect of the economy's decline.

overlap

v. to partially cover something by going beyond its edge

synonym : overlay, cover, bespread

(1) **overlap** one another, (2) **overlap** in many areas

There was no **overlap** between their proposals.

peak

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

synonym : summit, vertex, apex

(1) at **peak** hour, (2) the **peak** current in the circuit

This measurement aims to reduce traffic at **peak** periods.

cancel

v. to decide that a previously scheduled activity will not take place

synonym : abort, invalidate, annul

(1) **cancel** a class, (2) **cancel** a free subscription trial

When customers **cancel** their reservations, they lose the deposit they made.

parallel

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

synonym : aligned, side-by-side, similar

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

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

eventually

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

synonym : finally, someday, ultimately

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

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

rejoin

v. to return to someone or something

synonym : come back, return, reunite

(1) **rejoin** their mother ship, (2) **rejoin** the party

After the battle, the soldier managed to **rejoin** his unit.

delay

v. to cause something to happen at a later time than originally intended or expected

synonym : block, adjourn, detain

(1) **delay** a flight three hours, (2) **delay** the new project

We **delayed** the payment because of an incorrect invoice.

recombine

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**
Some scientists argue that the genes in food should not be artificially **recombined**.

synchronize

v. to happen or cause to happen at the same time or rate
synonym: coordinate, accompany, harmonize

(1) **synchronize** movements, (2) **synchronize** our watches
The ball speed will increase when the lower body movements are perfectly **synchronized**.

toggle

n. a switch, button, or lever that can be used to turn a device or feature on or off or to switch between different options or modes; (verb) to switch between two different states, options, or modes, often repeatedly

synonym: switch, lever, button

(1) **toggle** condition, (2) **toggle** between two options

You need to use the **toggle** button to switch between the night and day modes on the app.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

sensitive

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

synonym: exposed, susceptible, keen

(1) **sensitive** documents, (2) baby with **sensitive** skin
The teacher is very **sensitive** to children's feelings.

fast-acting

adj. describing a substance or product that works rapidly, quickly producing the desired effect or result

synonym : quick-acting, rapid, swift

(1) **fast-acting** energy drink, (2) **fast-acting** insulin
The **fast-acting** medication provided immediate relief for my migraine headache.

refined

adj. made pure by having impurities or unwanted elements removed by processing

synonym : cultured, purified, tasteful

(1) adopt a **refined** attitude, (2) a lot of **refined** sugar
She was highly **refined** in her choice of apparel.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**
Driving is difficult for me because of my poor **vision**.

automobile

n. a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods

synonym : car, vehicle, motorcar

(1) driverless **automobile**, (2) **automobile** insurance
The **automobile** industry is a major contributor to air pollution in cities.

rely

v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

synonym : depend, count, lean

(1) **rely** on convenience stores, (2) **rely** entirely on him
Babies heavily **rely** on others for food.

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.

spinning

n. the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

synonym : whirling, rotating, spinning wheel

(1) **spinning** machine, (2) **spinning** wheel

She took a **spinning** class at the gym to improve her cardiovascular fitness.

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.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym : look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

rooftop

n. the upper surface or cover of a building's roof, often used for recreational or other purposes

synonym : roof, terrace, deck

(1) **rooftop** live, (2) **rooftop** deck

They held the dinner party on the **rooftop** terrace, enjoying the beautiful view of the city.

hood

n. a covering for the head and neck, especially one attached to a garment

synonym : hoodie, cowl, cloak

(1) **hood** ornament, (2) a silk **hood**

He pulled his waterproof **hood** up to protect himself from the rain.

shrink

v. to become smaller, or to make something smaller in size or amount

synonym : decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

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.

variation

n. the act or state of changing; a difference or change in the way something is done, made or said

synonym : fluctuation, change, variation

(1) **variation** of temperature, (2) gene **variation**

There is a lot of **variation** in the colors of flowers in the garden.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

dim

adj. poorly lit; not bright

synonym : dull, faint, weak

(1) **dim** and distant past, (2) **dim** memory

The **dim** light made it difficult to read the book.

array

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

synonym : collection, display, batch

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

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

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.

novel

n. an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

synonym : fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym : guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

vantage

n. a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

synonym : advantage, benefit, edge

(1) strategic **vantage**, (2) gain a **vantage**

From our **vantage** point, we could see the whole city skyline.

thorough

adj. done completely; significantly careful and accurate

synonym : complete, comprehensive, meticulous

(1) **thorough** investigation, (2) provide **thorough** analysis

A **thorough** brushing helps to keep your mouth fresh.

sweat

n. the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress

synonym: perspiration, steam, hardwork

(1) all in a **sweat**, (2) **sweat** bath

She wiped the **sweat** off her forehead with a towel.

disorient

v. to make someone confused about where they are or where they should go

synonym: confuse, flummox, perplex

(1) **disorient** his audience, (2) **disorient** and wrong-foot viewers

Several studies have indicated that human activity at sea might **disorient** dolphins and whales.

Session 2: Spelling

- | | |
|-------------------------|--|
| 1. gain a va_____e | <i>n.</i> a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage |
| 2. in_____le stars | <i>adj.</i> impossible or nearly impossible to see |
| 3. sp_____ng wheel | <i>n.</i> the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn |
| 4. chemical pr_____ty | <i>n.</i> a thing or things that belong to someone |
| 5. pic_____nd pulse | <i>n.</i> a unit of time that is equal to one trillionth (10^{-12}) of a second |
| 6. as_____ly line | <i>n.</i> a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country |
| 7. high st__k | <i>n.</i> 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 |
| 8. lo___e a missing pet | <i>v.</i> to specify or determine the exact position of someone or something |
| 9. pe___e pathway | <i>n.</i> a small, smooth, rounded rock, especially one worn by the action of water |

ANSWERS: 1. vantage, 2. invisible, 3. spinning, 4. property, 5. picosecond, 6. assembly, 7. stack, 8. locate, 9. pebble

10. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
11. 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
12. potential health ha___ds *n.* something dangerous and likely to cause damage
13. a lot of re_____d sugar *adj.* made pure by having impurities or unwanted elements removed by processing
14. a man of pr_____ty *n.* a thing or things that belong to someone
15. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
16. 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
17. an in_____le asset *adj.* impossible or nearly impossible to see
18. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
19. di_____nt his audience *v.* to make someone confused about where they are or where they should go
20. na_____te the Pacific *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map

ANSWERS: 10. determinant, 11. plot, 12. hazard, 13. refined, 14. property, 15. addition, 16. chip, 17. invisible, 18. scan, 19. disorient, 20. navigate

21. shedding an___rs *n.* a branched, bony growth that protrudes from the forehead of male deer, elk, and moose and that is shed and regrown annually
22. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
23. bo___e back from failure *v.* to cause to move up or away after hitting a surface; to spring back
24. mi_____re camera *adj.* being on a very small scale
25. 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
26. re_____ne at the surface *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
27. provide th_____gh analysis *adj.* done completely; significantly careful and accurate
28. 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
29. ov_____p one another *v.* to partially cover something by going beyond its edge
30. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
31. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 21. antler, 22. visualize, 23. bounce, 24. miniature, 25. laser, 26. recombine, 27. thorough, 28. integrate, 29. overlap, 30. resolve, 31. launch

32. 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
33. historical no__l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
34. a pa____el case *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
35. a low-pi__hed sound *n.* the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something
36. speak with pr____on *n.* the quality or condition of being exact and accurate
37. se____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
38. global av____on industry *n.* the activity or process of designing, building, flying, and maintaining aircraft
39. fas____ng insulin *adj.* describing a substance or product that works rapidly, quickly producing the desired effect or result
40. 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

ANSWERS: 32. plot, 33. novel, 34. parallel, 35. pitch, 36. precision, 37. sensitive, 38. aviation, 39. fast-acting, 40. integrate

41. score an ad_____ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
42. sp_____ng machine *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
43. make a pi__h for a new product *n.* the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something
44. re___n the party *v.* to return to someone or something
45. di_____nt and wrong-foot viewers *v.* to make someone confused about where they are or where they should go
46. re___n their mother ship *v.* to return to someone or something
47. p__d water *n.* a small, shallow lake
48. ro_____p deck *n.* the upper surface or cover of a building's roof, often used for recreational or other purposes
49. d_m and distant past *adj.* poorly lit; not bright
50. to___e between two options *n.* a switch, button, or lever that can be used to turn a device or feature on or off or to switch between different options or modes; (verb) to switch between two different states, options, or modes, often repeatedly

ANSWERS: 41. advantage, 42. spinning, 43. pitch, 44. rejoin, 45. disorient, 46. rejoin, 47. pond, 48. rooftop, 49. dim, 50. toggle

51. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
52. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
53. ri___e in the water *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
54. the t_p of a paintbrush *n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
55. co_____st two things *v.* to put in opposition to show or emphasize differences
56. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
57. sh___k with fear *v.* to become smaller, or to make something smaller in size or amount
58. 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
59. h__d ornament *n.* a covering for the head and neck, especially one attached to a garment
60. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 51. array, 52. centimeter, 53. ripple, 54. tip, 55. contrast, 56. emit, 57. shrink, 58. digital, 59. hood, 60. communicate

61. ob____s reasons *adj.* easy to see, discover or understand
62. d_m memory *adj.* poorly lit; not bright
63. mi_____ve popcorn *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
64. the p__k current in the circuit *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
65. ra__r air traffic control *n.* a technology that employs radio waves to locate items that cannot be seen
66. 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
67. branches of an an____r *n.* a branched, bony growth that protrudes from the forehead of male deer, elk, and moose and that is shed and regrown annually
68. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
69. syn_____ze movements *v.* to happen or cause to happen at the same time or rate

ANSWERS: 61. obvious, 62. dim, 63. microwave, 64. peak, 65. radar, 66. beam, 67. antler, 68. environment, 69. synchronize

70. fas_____ng energy drink *adj.* describing a substance or product that works rapidly, quickly producing the desired effect or result
71. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
72. 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
73. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
74. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
75. ov_____p in many areas *v.* to partially cover something by going beyond its edge
76. re_____e a story *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
77. civil av_____on *n.* the activity or process of designing, building, flying, and maintaining aircraft
78. in_____ed radiation *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
79. re_____le access *adj.* worthy of being relied on; trustworthy

ANSWERS: 70. fast-acting, 71. precise, 72. antenna, 73. feat, 74. algorithm, 75. overlap, 76. relate, 77. aviation, 78. infrared, 79. reliable

80. de__y a flight three hours *v.* to cause something to happen at a later time than originally intended or expected
81. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
82. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
83. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
84. take ad_____ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
85. a garden p__d *n.* a small, shallow lake
86. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
87. adopt a re_____d attitude *adj.* made pure by having impurities or unwanted elements removed by processing
88. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
89. no__l effect *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
90. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

ANSWERS: 80. delay, 81. eventually, 82. humming, 83. eventually, 84. advantage, 85. pond, 86. algorithm, 87. refined, 88. device, 89. novel, 90. vision

91. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
92. strategic va_____e *n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage
93. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
94. 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
95. ob_____le avoidance *n.* a thing that blocks one's way or prevents or hinders progress
96. ca___l a free subscription trial *v.* to decide that a previously scheduled activity will not take place
97. pic_____nd resolution *n.* a unit of time that is equal to one trillionth (10^{-12}) of a second
98. drop a pe___e into a pond *n.* a small, smooth, rounded rock, especially one worn by the action of water
99. ca___l a class *v.* to decide that a previously scheduled activity will not take place
100. ra__r scanning *n.* a technology that employs radio waves to locate items that cannot be seen
101. ped_____an safety *n.* a person who is in the street, especially in an area where vehicles go
102. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty

ANSWERS: 91. emit, 92. vantage, 93. environment, 94. stack, 95. obstacle, 96. cancel, 97. picosecond, 98. pebble, 99. cancel, 100. radar, 101. pedestrian, 102. resolve

103. bo___e across the floor *v.* to cause to move up or away after hitting a surface; to spring back
104. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
105. a pr_____on instrument *n.* the quality or condition of being exact and accurate
106. a ri___e of laughter *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
107. gl___n important information *v.* to collect information, knowledge, etc., in small amounts and often with difficulty; to gather, as natural products
108. su_____ly attacked by an enemy *adv.* quickly and unexpectedly
109. syn_____ze our watches *v.* to happen or cause to happen at the same time or rate
110. 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
111. pa_____el processing *adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
112. an in_____ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

ANSWERS: 103. bounce, 104. sensitive, 105. precision, 106. ripple, 107. glean, 108. suddenly, 109. synchronize, 110. digital, 111. parallel, 112. infrared

113. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
114. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
115. sc_____r seeds *v.* to cause to separate and go in different directions
116. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
117. 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
118. sc_____r around the internet *v.* to cause to separate and go in different directions
119. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
120. importance of early de_____on *n.* the act of discovering or identifying the presence of something
121. occupational ha___d *n.* something dangerous and likely to cause damage
122. sh___k the tumor *v.* to become smaller, or to make something smaller in size or amount

ANSWERS: 113. pulse, 114. launch, 115. scatter, 116. feat, 117. beam, 118. scatter, 119. split, 120. detection, 121. hazard, 122. shrink

123. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
124. un_____le weather *adj.* lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions
125. at p__k hour *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
126. the de__h of the water *n.* the distance between the top and bottom of something; between the top surface and a distance below it
127. int_____nce wave *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
128. 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
129. lo___e a tumor *v.* to specify or determine the exact position of someone or something
130. 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
131. 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

ANSWERS: 123. detect, 124. unstable, 125. peak, 126. depth, 127. interference, 128. antenna, 129. locate, 130. laser, 131. communicate

132. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
133. gene va_____on *n.* the act or state of changing; a difference or change in the way something is done, made or said
134. re____r the contract void *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
135. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
136. r____y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
137. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
138. mentally un_____le *adj.* lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions
139. 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
140. de_____on by the security software *n.* the act of discovering or identifying the presence of something
141. driverless aut_____le *n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods

ANSWERS: 132. centimeter, 133. variation, 134. render, 135. complexity, 136. rely, 137. addition, 138. unstable, 139. assembly, 140. detection, 141. automobile

142. ph___n energy *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
143. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
144. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
145. to___e condition *n.* a switch, button, or lever that can be used to turn a device or feature on or off or to switch between different options or modes; (verb) to switch between two different states, options, or modes, often repeatedly
146. a two-dimensional ar__y *n.* a large group or collection of things or people, especially one that is impressive or attractive
147. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
148. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
149. ro_____p live *n.* the upper surface or cover of a building's roof, often used for recreational or other purposes

ANSWERS: 142. photon, 143. device, 144. relate, 145. toggle, 146. array, 147. complexity, 148. humming, 149. rooftop

150. a house with m_d cons *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers
151. mi_____re version *adj.* being on a very small scale
152. ability to re_____ne *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
153. on_____ht of criticism *n.* a fierce or violent attack; a sudden and intense outburst of something, usually negative
154. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
155. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
156. guarantee re_____le delivery *adj.* worthy of being relied on; trustworthy
157. va_____on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
158. st__r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
159. a lunar pr__e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

ANSWERS: 150. mod, 151. miniature, 152. recombine, 153. onslaught, 154. visualize, 155. rely, 156. reliable, 157. variation, 158. steer, 159. probe

160. urban on_____ht *n.* a fierce or violent attack; a sudden and intense outburst of something, usually negative
161. mo__e population *n.* a large deer native to the northern forests of North America and Eurasia
162. 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
163. die su_____ly *adv.* quickly and unexpectedly
164. an ob_____le to progress *n.* a thing that blocks one's way or prevents or hinders progress
165. de__y the new project *v.* to cause something to happen at a later time than originally intended or expected
166. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
167. his conclusion was ob____s *adj.* easy to see, discover or understand
168. ph___n emission *n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
169. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
170. gl__n the fields *v.* to collect information, knowledge, etc., in small amounts and often with difficulty; to gather, as natural products

ANSWERS: 160. onslaught, 161. moose, 162. chip, 163. suddenly, 164. obstacle, 165. delay, 166. detect, 167. obvious, 168. photon, 169. scan, 170. glean

171. de__h camera *n.* the distance between the top and bottom of something; between the top surface and a distance below it
172. na_____te through a document *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
173. mi_____ve radiation *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
174. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
175. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
176. pr_____e analyses *adj.* sharply exact or accurate or delimited
177. m_d culture *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

ANSWERS: 171. depth, 172. navigate, 173. microwave, 174. pulse, 175. determinant, 176. precise, 177. mod

178. aut_____le insurance *n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods
179. ped_____an accident *n.* a person who is in the street, especially in an area where vehicles go
180. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
181. all in a sw__t *n.* the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
182. officious int_____nce *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
183. give the waiter a t_p. *n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
184. a prodigious vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
185. mo__e hunting *n.* a large deer native to the northern forests of North America and Eurasia
186. a silk h__d *n.* a covering for the head and neck, especially one attached to a garment
187. pr__e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

ANSWERS: 178. automobile, 179. pedestrian, 180. split, 181. sweat, 182. interference, 183. tip, 184. vision, 185. moose, 186. hood, 187. probe

188. sw__t bath *n.* the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
189. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
190. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
191. th____gh investigation *adj.* done completely; significantly careful and accurate
192. co____st with a decade ago *v.* to put in opposition to show or emphasize differences

ANSWERS: 188. sweat, 189. steer, 190. render, 191. thorough, 192. contrast

Session 3: Fill in the Blanks

1. The antlers of a bull _____ can grow up to 6 feet in width and weigh over 60 pounds.
 - n.* a large deer native to the northern forests of North America and Eurasia
2. The deer's _____ were an impressive sight to see in the forest.
 - n.* a branched, bony growth that protrudes from the forehead of male deer, elk, and moose and that is shed and regrown annually
3. Many businesses felt the _____ effect of the economy's decline.
 - n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
4. One _____ of success is having a positive attitude and a strong work ethic.
 - n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
5. 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
6. She picked up a _____ from the beach and put it in her pocket as a souvenir.
 - n.* a small, smooth, rounded rock, especially one worn by the action of water
7. This company _____ its battery problem completely.
 - v.* to find a suitable answer to the problems or difficulty

ANSWERS: 1. moose, 2. antlers, 3. ripple, 4. determinant, 5. split, 6. pebble, 7. resolves

8. They held the dinner party on the _____ terrace, enjoying the beautiful view of the city.
- n.* the upper surface or cover of a building's roof, often used for recreational or other purposes
9. This smartphone has a collision _____ function.
- n.* the act of discovering or identifying the presence of something
10. He walked a road _____ to the railroad.
- adj.* being everywhere equidistant and not intersecting; of or relating to the simultaneous performance of multiple operations
11. One of the main _____ of the new product is its increased efficiency.
- n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
12. The ___ light made it difficult to read the book.
- adj.* poorly lit; not bright
13. Our knowledge helps _____ our clients successfully.
- v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
14. You need to use the _____ button to switch between the night and day modes on the app.
- n.* a switch, button, or lever that can be used to turn a device or feature on or off or to switch between different options or modes; (verb) to switch between two different states, options, or modes, often repeatedly
15. From our _____ point, we could see the whole city skyline.
- n.* a position or place that provides a commanding or advantageous view or perspective; a favorable position or advantage

ANSWERS: 8. rooftop, 9. detection, 10. parallel, 11. advantages, 12. dim, 13. navigate, 14. toggle, 15. vantage

16. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
17. He tried to _____ his experience to the group, but they couldn't understand.
v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
18. The pond's _____ was around five feet.
n. the distance between the top and bottom of something; between the top surface and a distance below it
19. There are _____ differences between the two wine-producing regions.
adj. easy to see, discover or understand
20. She was highly _____ in her choice of apparel.
adj. made pure by having impurities or unwanted elements removed by processing
21. 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
22. He pulled his waterproof _____ up to protect himself from the rain.
n. a covering for the head and neck, especially one attached to a garment
23. 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

ANSWERS: 16. eventually, 17. relate, 18. depth, 19. obvious, 20. refined, 21. beam, 22. hood, 23. communicate

24. 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
25. This measurement aims to reduce traffic at _____ periods.
- n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
26. Lost mobile phones lead to another potential _____ regarding privacy.
- n.* something dangerous and likely to cause damage
27. The company is set to _____ its new product line next month.
- v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
28. 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
29. The _____ camera revealed a hidden image on the surface.
- adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
30. Babies heavily _____ on others for food.
- v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
31. The _____ for the video game added new features and improved gameplay.
- n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

ANSWERS: 24. device, 25. peak, 26. hazard, 27. launch, 28. chip, 29. infrared, 30. rely, 31. mod

32. Driving is difficult for me because of my poor _____.
- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
33. He stood to inherit a million-dollar _____.
- n.* a thing or things that belong to someone
34. She took a _____ class at the gym to improve her cardiovascular fitness.
- n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
35. Unfortunately, the radio _____ made it difficult to hear the broadcast.
- n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
36. The village was unprepared for the sudden _____ of the enemy army.
- n.* a fierce or violent attack; a sudden and intense outburst of something, usually negative
37. 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.
38. They will _____ between various emotional states.
- v.* to cause to move up or away after hitting a surface; to spring back
39. Trains are _____ inexpensive, and ideal for long-distance travel.
- adj.* worthy of being relied on; trustworthy

ANSWERS: 32. vision, 33. property, 34. spinning, 35. interference, 36. onslaught, 37. render, 38. bounce, 39. reliable,

40. The tower proved to be _____ in the high wind.

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

41. The robot can accurately _____ construction material.

v. to specify or determine the exact position of someone or something

42. When customers _____ their reservations, they lose the deposit they made.

v. to decide that a previously scheduled activity will not take place

43. During the unloading, the container box _____ a clicking sound.

v. to give off or send out something such as light, heat, sound, gas, etc.

44. The _____ of the bees filled the air as she walked through the garden.

adj. producing a continuous, low, vibrating sound like that of the bee

45. There was no _____ between their proposals.

v. to partially cover something by going beyond its edge

46. 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

47. 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

48. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

ANSWERS: 40. unstable, 41. locate, 42. cancel, 43. emits, 44. humming, 45. overlap, 46. integrate, 47. plot, 48. precise

49. _____ systems cannot spot the submarine.

n. a technology that employs radio waves to locate items that cannot be seen

50. He carefully interviewed the victims and tried to _____ the details of the culprit.

v. to collect information, knowledge, etc., in small amounts and often with difficulty; to gather, as natural products

51. Who answers _____ knows little.

adv. quickly and unexpectedly

52. The security camera has _____ four intruders.

v. to find or recognize something, especially something difficult to see, hear, etc.

53. This shirt will _____ in the wash.

v. to become smaller, or to make something smaller in size or amount

54. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.

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

55. I will introduce some _____ on learning English in this class.

n. the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

56. This operation requires both patience and _____.

n. the quality or condition of being exact and accurate

ANSWERS: 49. Radar, 50. glean, 51. suddenly, 52. detected, 53. shrink, 54. feat, 55. tips, 56. precision

57. The _____ industry is a major contributor to air pollution in cities.
- n.* a road vehicle that has four wheels and is powered by an engine, used for transporting people or goods
58. The computer processor can execute instructions in a _____.
- n.* a unit of time that is equal to one trillionth (10^{-12}) of a second
59. The teacher is very _____ to children's feelings.
- adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
60. 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
61. 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
62. The _____ expert analyzed the fluid around the aircraft.
- n.* the activity or process of designing, building, flying, and maintaining aircraft
63. I heated my leftover food in the _____ oven, which tasted just as good as freshly cooked.
- n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 57. automobile, 58. picosecond, 59. sensitive, 60. laser, 61. assembly, 62. aviation, 63. microwave

64. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
65. The _____ medication provided immediate relief for my migraine headache.
- adj.* describing a substance or product that works rapidly, quickly producing the desired effect or result
66. She tried to _____ the layout of the new house in her mind.
- v.* to form a mental image or concept of something; to make something visible
67. 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
68. The cardiac monitor displays the intensity of your _____.
- n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
69. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
70. The captain told him to _____ the ship north.
- v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
71. A _____ is an uncommon sight in this area.
- n.* a person who is in the street, especially in an area where vehicles go

ANSWERS: 64. environment, 65. fast-acting, 66. visualize, 67. complexity, 68. pulse, 69. algorithm, 70. steer, 71. pedestrian

72. Several studies have indicated that human activity at sea might _____ dolphins and whales.
- v.* to make someone confused about where they are or where they should go
73. The room was only one _____ wider than the piano, making it a tight fit.
- n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
74. Her voice gradually increased in _____.
- n.* the property of sound that varies with variation in the frequency of vibration; the degree of a slope, especially of a roof; short presentation for selling or sharing something
75. There is a lot of _____ in the colors of flowers in the garden.
- n.* the act or state of changing; a difference or change in the way something is done, made or said
76. She stood on the podium and _____ an audience.
- v.* to examine something hastily, with the eyes or with a machine, to get information
77. The _____ course was challenging but fun.
- n.* a thing that blocks one's way or prevents or hinders progress
78. In _____ private corporations provide healthcare services.
- n.* the act or process of adding something to something else; the process of adding numbers
79. The ball speed will increase when the lower body movements are perfectly _____.
- v.* to happen or cause to happen at the same time or rate

ANSWERS: 72. disorient, 73. centimeter, 74. pitch, 75. variation, 76. scanned, 77. obstacle, 78. addition, 79. synchronized

80. Infrared cameras detect _____ in the infrared range of the electromagnetic spectrum.
- n.* a unit or quantum of electromagnetic energy, typically regarded as a particle that is the basic constituent of all light and other forms of electromagnetic radiation
81. The _____ has largely gotten positive feedback.
- n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
82. The hunter's approach _____ the geese.
- v.* to cause to separate and go in different directions
83. She wiped the _____ off her forehead with a towel.
- n.* the salty liquid that is produced by the glands in the skin, especially when the body is hot or under stress
84. The customer on the Internet has to choose one from a formidable _____ of products.
- n.* a large group or collection of things or people, especially one that is impressive or attractive
85. The phenomenon is _____ at optical wavelengths.
- adj.* impossible or nearly impossible to see
86. We _____ the payment because of an incorrect invoice.
- v.* to cause something to happen at a later time than originally intended or expected
87. 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

ANSWERS: 80. photons, 81. novel, 82. scattered, 83. sweat, 84. array, 85. invisible, 86. delayed, 87. antenna

88. Some scientists argue that the genes in food should not be artificially _____.
- v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
89. It's intriguing to compare and _____ the two authors.
- v. to put in opposition to show or emphasize differences
90. 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
91. He did complicated pen-and-ink drawings like medieval _____.
- adj. being on a very small scale
92. NASA sent a _____ to study the atmosphere of Jupiter.
- n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
93. The freshwater _____ was home to many different types of fish and was a popular spot for fishing.
- n. a small, shallow lake
94. 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

ANSWERS: 88. recombined, 89. contrast, 90. stack, 91. miniatures, 92. probe, 93. pond, 94. digital

95. A _____ brushing helps to keep your mouth fresh.

adj. done completely; significantly careful and accurate

96. After the battle, the soldier managed to _____ his unit.

v. to return to someone or something

ANSWERS: 95. thorough, 96. rejoin