

# Englist.me



## Vocabulary Builder Reference from...

*Dustin Schroeder: How we look kilometers below the Antarctic ice sheet | TED Talk*

[https://www.ted.com/talks/dustin\\_schroeder\\_how\\_we\\_look\\_kilometers\\_below\\_the\\_antarctic\\_ice\\_sheet](https://www.ted.com/talks/dustin_schroeder_how_we_look_kilometers_below_the_antarctic_ice_sheet)

### All Words

#### IMPORTANT

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## Session 1: Word List

### glaciologist

*n.* a scientist who studies the formation, movement, and effects of glaciers and ice

*synonym* : ice scientists, cryospheric scientists

(1) **glaciologist** findings, (2) **glaciologist** fieldwork

The **glaciologist's** research revealed that the glacier has been shrinking alarmingly.

### 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.

### glacier

*n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

*synonym* : iceberg, ice floe

(1) **glacier** retreat, (2) **glaciers** move tardily

The **glaciers** of the ice age have shaped Fjord.

### estimate

*v.* to guess or calculate the cost, size, value, etc. of something

*synonym* : calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh

three pounds

We **estimated** the season's total trade deficit at \$50 billion.

## contribute

v. to give something, especially money or goods, to provide or achieve something together with other people

*synonym*: donate, devote, commit

(1) **contribute** a large sum of money to the fund,

(2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

## 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.

## climate

n. the weather in a particular location averaged over some long period

*synonym*: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

**Climate** and weather have an impact on every part of our lifestyles.

## predict

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

*synonym*: forecast, anticipate, foresee

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

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

## context

n. the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning

*synonym*: background, setting, environment

(1) historical **context**, (2) legal **context**

It's important to understand the **context** of a situation before making a decision.

## vulnerable

*adj.* capable of being hurt or influenced physically or mentally

*synonym*: susceptible, exposed, weak

(1) a **vulnerable** bridge, (2) **vulnerable** parts of the body  
Infants and pregnant women are particularly **vulnerable**.

## displacement

*n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

*synonym*: eviction, exile, exodus

(1) **displacement** camp, (2) a car with 1800 cc  
**displacement**

The **displacement** of the residents was a consequence of the construction of the new highway.

## uncertain

*adj.* not being sure of something; not being able to choose

*synonym*: doubtful, skeptical, pending

(1) numerous **uncertain** factors, (2) take an **uncertain** attitude

She was **uncertain** about her friend's intentions.

## asterisk

*n.* a symbol (\*) used in text to indicate a footnote, omission of letters, or a reference to additional information; in sports, a symbol used to indicate a special achievement

*synonym*: star, mark, symbol

(1) add an **asterisk**, (2) annotate with an **asterisk**

The **asterisk** on the sign indicated that there were additional terms and conditions.

## caveat

*n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing

*synonym*: warning, caution, admonition

(1) a **caveat** against unfair practices, (2) general **caveat**

We often ignore important **caveats** from nature.

## collapse

*v.* to fall down or give way suddenly, often after breaking apart

*synonym*: tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

## dramatically

*adv.* in a very impressive manner

*synonym*: greatly, noticeably, suddenly

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

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

## chart

*n.* a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea

*synonym*: diagram, graph, map

(1) a weather **chart**, (2) a statistical **chart**

This pie **chart** represents our market share.

## possibility

*n.* a chance that something may happen or be true

*synonym*: chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

## geology

*n.* a science that deals with the history of the earth as recorded in rocks

*synonym*: earth science

(1) bureau of **geology**, (2) local **geology**

He was a visiting **geology** professor at the University of Tokyo.

## confidence

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

*synonym* : self-trust, certainty, belief

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

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

## continent

*n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

*synonym* : landmass, (adjective) chaste, (adjective) pure

(1) the inland of a **continent**, (2) **continent** urinary diversion

Flight across the **continent** was a daring adventure in its day.

## 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.

## physics

*n.* the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

## 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.

## beneath

*adv.* in or to a lower place than someone or something

*synonym* : down, under, low

(1) the ground **beneath** my feet, (2) **beneath** contempt  
A great stretch of the lake lay **beneath** them.

## 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.

## blind

*adj.* unable to see; unable or unwilling to perceive or understand the true nature of something

*synonym* : sightless, unseeing, random

(1) **blind** to the beauties, (2) **blind** spot  
She was nearly **blind** due to severe diabetes.

## observe

*v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

*synonym* : watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife  
It is important to **observe** safety procedures in the workplace to prevent accidents.

## comprehensive

*adj.* complete and including all or everything necessary

*synonym* : complete, encyclopedic, thorough

(1) a **comprehensive** explanation, (2) conduct a **comprehensive** survey  
We have a **comprehensive** grasp of this topic.

## observation

*n.* the act or activity of carefully examining or monitoring something or someone

*synonym* : watching, notice, reflection

(1) class **observation** day, (2) **observation** instrument

In the hospital, she will remain under constant **observation**.

## mar

v. to damage or spoil the appearance or surface of something

*synonym*: damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation  
The scratches on the car **marred** its otherwise perfect appearance.

## gigantic

*adj.* extremely large

*synonym*: huge, enormous, immense

(1) **gigantic** proportions, (2) **gigantic** monsters

He was so hungry from the long journey that he had a **gigantic** appetite.

## rocky

*adj.* full of or abounding in rocks; of, relating to, or made of rock

*synonym*: stony, boulder-strewn, rough

(1) **rocky** terrain, (2) **rocky** relationship

The **rocky** road made it difficult to drive on.

## distinct

*adj.* noticeable from something else of a similar type

*synonym*: different, special, characteristic

(1) **distinct** difference, (2) **distinct** from each other

It is essential to keep these two issues **distinct**.

## subsurface

*adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface

*synonym*: beneath the surface, underground, subterranean

(1) **subsurface** mining, (2) **subsurface** oil reserves

The **subsurface** layers of the ocean are still largely unexplored.

## evolve

v. to develop gradually, or to cause the development of something or someone gradually

*synonym* : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

## timescale

*n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process

*synonym* : time frame, schedule, duration

(1) long- **timescale**, (2) realistic **timescale**

The **timescale** for completing the construction project is three years.

## millennium

*n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)

(1) past **millennium**, (2) **millennium** bottle of wine

Our world is in the third **millennium**.

## airborne

*adj.* moved or conveyed by or through the air; in the air

*synonym* : flying, aerial, floating

(1) **airborne** troop, (2) **airborne** particles

The amount of **airborne** pollen this year is higher than usual.

## penetrating

*adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

*synonym* : keen, piercing, sharp

(1) **penetrating** gaze, (2) **penetrating** analysis

The **penetrating** smell of freshly brewed coffee filled the room.

## bulge

*v.* to protrude or extend outward

*synonym* : protrude, swell, expand

(1) **bulge** at the enterprise, (2) **bulge** with books

The muscles in his arm **bulged** as he lifted the heavyweights.



## 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

## underneath

*adv.* under or below something else

*synonym* : below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

## transmit

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

*synonym* : convey, share, dispatch

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

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

## echo

*n.* a sound heard after being reflected off a surface, such as a wall or a cliff

*synonym* : reverberate, repeat, reflection

(1) the **echo** of a person's footsteps, (2) sound **echo**

A thunderous boom **echoed** throughout the valley.

## 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.

## stretch

*v.* to make or be capable of making anything longer or broader without hurting or breaking

*synonym* : lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of

kilometers.

## **misconception**

*n.* a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis

*synonym*: fallacy, incomprehension, misunderstanding

(1) dispel the **misconception**, (2) commonly held **misconception**

There are numerous **misconceptions** about food and health.

## **fieldwork**

*n.* real-world research or study conducted outside a library or laboratory.

(1) meticulous **fieldwork**, (2) perform **fieldwork**

Numerous instances from **fieldwork** show these hypotheses in great detail.

## **peer**

*n.* a person who has the same age, status, or ability

*synonym*: fellow, associate, counterpart

(1) **peer** group, (2) **peer** review

Among young people, **peer** pressure can be pretty influential.

## **contemplate**

*v.* to think about a possible future action or to think about something for a long time thoughtfully

*synonym*: think over, ponder, consider

(1) **contemplate** a marriage, (2) **contemplated** leaving school

I recently **contemplated** dropping out of school and getting a full-time job.

## **landscape**

*n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

*synonym*: geography, terrain, topography

(1) a peaceful **landscape**, (2) **landscape** painting

Recent electoral shocks have shaken the political **landscape** in Europe.

## 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.

## flee

*v.* to leave by running away, especially out of fear or danger

*synonym* : exit, escape, run away

(1) **flee** their homes, (2) **flee** abroad

It is a basic instinct to **flee** from a dangerous situation.

## videotape

*n.* a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape

*synonym* : videocassette, tape, recording

(1) **videotape** evidence, (2) rewind **videotape**

We watched a **videotape** of our family vacation from years ago.

## knob

*n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet

*synonym* : handle, lever

(1) handy **knob**, (2) **knob** closure

The **knob** on the drawer was loose and needed to be tightened.

## vertical

*adj.* upright or perpendicular to a horizontal surface or line

*synonym* : perpendicular, upright, plumb

(1) **vertical** takeoff, (2) **vertical** axis

The ladder leaned against the **vertical** surface of the building.

## slice

*n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

*synonym* : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin  
The children complained because one **slice** of cake was slightly larger than the other.

## bedrock

*n.* the solid rock underlying soil or alluvium

*synonym* : foundation, foundation stone, base

(1) **bedrock** foundation, (2) **bedrock** geology

The **bedrock** beneath the soil is extremely solid and stable.

## amazing

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

*synonym* : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

## investigate

*v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

*synonym* : examine, analyze, look into

(1) **investigate** the matter, (2) **investigate** a data leak

The committee **investigated** several apparent inconsistencies.

## infrastructure

*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

*synonym* : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

## 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.

## struggle

*v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

*synonym* : toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

## sophisticated

*adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

*synonym* : refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

## 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.

## modern

*adj.* of or belonging to the present time or recent times

*synonym* : contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

## heroic

*adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

*synonym* : brave, courageous, daring

(1) a **heroic** poem, (2) **heroic** explorers

The **heroic** actions of individuals are now easily spread worldwide by SNS.

## collaboration

*n.* the act or situation of working together to create or produce something

*synonym*: affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

## diversity

*n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

*synonym*: variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

## 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.

## volcano

*n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

*synonym*: mount, peak, crater

(1) **volcano** alert level, (2) active **volcano**

The island was formed by a **volcano** millions of years ago.

## giant

*adj.* enormous; much bigger or more important than similar items usually are

*synonym*: big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

## spatial

*adj.* of or relating space and the position, area, and size of things

*synonym* : dimensional, geographical

(1) **spatial** ability, (2) **spatial** distribution

He carefully determined the **spatial** relations of every piece of the stage set.

## snapshot

*n.* an informal photograph, especially one taken quickly

*synonym* : photo, picture, print

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

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

## indication

*n.* a sign or remark that something exists, is real, or is likely to occur

*synonym* : clue, hint, inkling

(1) **indication** of inflation, (2) environmental **indication**

Faces are a good **indication** of age.

## 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.

## reel

*n.* a cylinder on which film, wire, or other flexible materials that can be wound

*synonym* : spool, bobbin, winder

(1) cable **reel**, (2) a six- **reel** film

He put the fishing line on the **reel** and cast his line into the water.

## archives

*n.* a collection of historical documents or records providing information about a place, institution, or group of people

*synonym* : records, documents, repository

(1) historical **archives**, (2) digital **archives**

The **archives** at the library contain a wealth of information about the city's history.

## polar

*adj.* relating to, or close to, the North or South Pole; characterized by complete opposites

*synonym*: opposing, contrary, contrasting

(1) **polar** bears, (2) **polar** regions

**Polar** animals are graceful and efficient swimmers.

## institute

*n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

*synonym*: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

## 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.

## 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.

## 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.

## 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.

## remaster

*v.* to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality

*synonym* : remix, restore, enhance

(1) **remaster** edition, (2) **remaster** a film

The band decided to **remaster** their debut album for its 20th anniversary.

## historic

*adj.* famous or significant in history, or potentially so

*synonym* : memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat

The Chinese people have accomplished several **historic** feats.

## glove

*n.* a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger

*synonym* : mitt

(1) a right-hand **glove**, (2) 5-finger **glove**

She was wearing a black **glove**.

## arch

*n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the

upper part of a building

*synonym* : turn, bow, arc

(1) the **arch** of a person's foot, (2) an **arch-shaped** stone structure

The **arch** bears the weight of the overhead bridge.

## 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.

## 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.

## contemporary

*adj.* belonging to the same or present time

*synonym* : modern, stylish, coetaneous

(1) field of **contemporary** art, (2) **contemporary** leaders

**Contemporary** music has gained different followers from existing music.

## academy

*n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field

*synonym* : school, institute, college

(1) an **academy** of music, (2) a member of the **Academy**

Her new documentary earned her an **Academy** Award.

## 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.

## 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.

## spot

*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

*synonym* : dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

## bury

*v.* to place a dead body in the ground, grave, or tomb

*synonym* : entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

## cache

*n.* a collection of items hidden away or stored for future use; (computer science) memory that is set aside as buffer storage that is frequently updated

*synonym* : hoard, stash, stockpile

(1) **cache** memory, (2) hidden **cache**

I found a **cache** of old letters in the attic.

## battery

*n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

*synonym* : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

## 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**.

## continuous

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

*synonym* : ceaseless, regular, repeated

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

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

## coverage

*n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

*synonym* : reportage, scope, range

(1) full- **coverage** insurance, (2) contractual **coverage**

The scandal received widespread media **coverage**.

## temporal

*adj.* of or relating to time as opposed to eternity

*synonym* : transient, fleeting, temporary

(1) a **temporal** restriction, (2) **temporal** history

The **temporal** nature of the universe is a subject of much debate among scientists.

## 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**.

## fortunate

*adj.* having good luck or lucky

*synonym* : fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person

He was pretty **fortunate** to pass the exam.

## astronomy

*n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

*synonym* : astrophysics, stargazing, cosmology

(1) **astronomy** science, (2) a branch of **astronomy**

He had a deep passion for extragalactic **astronomy** and spent hours observing the night sky.

## 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.

## emission

*n.* the act of production or sending out gas, heat, light, etc.

*synonym* : emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

## zigzag

*adj.* having short sharp turns or angles

*synonym* : bent, crinkled, crooked

(1) **zigzag** sewing machine, (2) a **zigzag** line

We had to go through a **zigzag** course.

## undergraduate

*n.* a student who is studying for their first degree at a university or other higher education institution

*synonym* : college student, freshman

(1) engineering **undergraduate**, (2) **undergraduate** course

The class was composed of both **undergraduate** and graduate students.

## 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**.

### **sunset**

*n.* the time in the evening at which the sun begins to fall below the horizon; (verb) to expire or be terminated automatically at the end of a fixed period

*synonym*: evening, sundown, dusk

(1) **sunset** this function, (2) spectacular **sunset** views  
He is in the **sunset** of his life.

### **frequency**

*n.* an ordered array of colors into which a light beam can be split

*synonym*: recurrence, repetition, regularity

(1) **frequency** band, (2) high **frequency**

The oscillator hunts for the correct **frequency**.

### **geophysical**

*adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography

*synonym*: geologic, earth science, seismic

(1) **geophysical** exploration, (2) **geophysical** data

**Geophysical** surveys study the physical characteristics of the Earth's surface and subsurface.

### **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.

### **far-fetched**

*adj.* (of an idea or story) so exaggerated or ludicrous as to be very difficult to believe

*synonym*: bizarre, doubtful, unbelievable

(1) **far-fetched** idea, (2) **far-fetched** expressions

Though his plan sounded **far-fetched** at first, he realized it anyway.

## seismic

*adj.* relating to or caused by an earthquake or earth vibration  
*synonym* : seismal, tectonic, vibrational

(1) **seismic** activities, (2) a **seismic** center

Earthquakes produce two types of **seismic** waves.

## industrious

*adj.* hardworking, diligent, and persistent in effort  
*synonym* : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

## technique

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

*synonym* : approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

## detonate

*v.* to explode or cause to explode; to set off a sudden or dramatic series of events

*synonym* : explode, blow up, ignite

(1) **detonate** a missile, (2) **detonate** a plan

The bomb squad had to **detonate** the suspicious package found at the train station.

## dynamite

*n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes

*synonym* : explosives, blasting powder, TNT

(1) **dynamite-powered** engine, (2) **dynamite** fishing

The sound of the **dynamite** explosion could be heard for miles.

## ambient

*adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting

*synonym* : atmospheric, surrounding, encompassing

(1) **ambient** temperature, (2) **ambient** air pollution

The **ambient** lighting in the restaurant created a cozy and romantic atmosphere.

## 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.

## deploy

v. to move troops or weapons into a position or military action; to bring into something in an effective way

*synonym*: set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures

This country **deployed** its weapons in the east region.

## technological

*adj.* based on scientific and industrial progress

*synonym*: specialized, technical

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

**Technological** advances have disrupted many industries.

## align

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

*synonym*: coordinate, regulate, adjust

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

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

## nation

*n.* a large organized community of people living in a particular country or region and having a particular culture

*synonym*: country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.



## facility

*n.* a building or place that provides a particular service or is used for a particular industry

*synonym* : building, structure, installation

(1) a cell phone with an internet **facility**, (2) **facility** design

This company has an entire recycling **facility**, including major reprocessing plants.

## 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.

## software

*n.* a set of computer programs and associated documentation and data for doing particular computational jobs

*synonym* : program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

## 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.

## movement

*n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

*synonym* : motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and

elegant.

## 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.

## barrier

*n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

*synonym*: border, barricade, fence

(1) cost **barrier**, (2) information **barrier**

The police placed a **barrier** across the street to halt traffic.

## 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.

## optimize

*v.* to make the best or most effective use of something

*synonym*: advance, amend, improve

(1) **optimize** a process, (2) **optimize** control for cooling

The essence of economics is to **optimize** the allocation of limited resources.

## cryosphere

*n.* the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost

*synonym*: ice cover, frozen ground, polar ice

(1) retreat of **cryosphere**, (2) **cryosphere** research

Climate change is causing rapid melting of the **cryosphere**, which has far-reaching consequences.

## 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.

## mentor

*n.* a person who helps and advises a younger or less experienced person over time, usually at work or school

*synonym*: adviser, coach, tutor

(1) **mentor** for life, (2) fashion **mentor**

As a **mentor**, he helped me realize my career.

## brilliant

*adj.* extremely clever, skilled, or impressive

*synonym*: luminous, intelligent, clever

(1) **brilliant** idea, (2) **brilliant** performance

The more **brilliant** you are, the more people around you look at you with envy and jealousy.

## talented

*adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area

*synonym*: gifted, able, skilled

(1) a very **talented** actor, (2) **talented** athlete

She is a **talented** musician, able to play several instruments.

## passionate

*adj.* showing intense emotion or strong feeling; characterized by great enthusiasm or zeal; deeply committed to a cause or belief

*synonym*: ardent, fervent, intense

(1) **passionate** speech, (2) **passionate** kiss

Their **passionate** argument lasted for hours, neither willing to back down.

## Session 2: Spelling

1. gl\_\_\_\_r retreat *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole
2. ra\_\_r scanning *n.* a technology that employs radio waves to locate items that cannot be seen
3. long-ti\_\_\_\_\_le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
4. 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
5. historical co\_\_\_\_t *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
6. 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

ANSWERS: 1. glacier, 2. radar, 3. timescale, 4. develop, 5. context, 6. process

- |   |   |
|---|---|
| 7. a se_____c center                            | <i>adj.</i> relating to or caused by an earthquake or earth vibration   |
| 8. an_____a of insect                           | <i>n.</i> an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects |
| 9. tec_____cal advancement                      | <i>adj.</i> based on scientific and industrial progress   |
| 10. eq__p our children with some special skills | <i>v.</i> to provide a person or a place with the things that are needed for a particular purpose or activity   |
| 11. de___t a bad event                          | <i>v.</i> to find or recognize something, especially something difficult to see, hear, etc.   |
| 12. s__n a document into PDF                    | <i>v.</i> to examine something hastily, with the eyes or with a machine, to get information   |
| 13. inv_____te a data leak                      | <i>v.</i> to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth              |
| 14. sound e__o                                  | <i>n.</i> a sound heard after being reflected off a surface, such as a wall or a cliff  |
| 15. in_____e a high degree of risk              | <i>v.</i> to include or affect someone or something as a necessary part of something else   |
| 16. take a sn_____ot                            | <i>n.</i> an informal photograph, especially one taken quickly  |
| 17. rewind vi_____pe                            | <i>n.</i> a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape  |

ANSWERS: 7. seismic, 8. antenna, 9. technological, 10. equip, 11. detect, 12. scan, 13. investigate, 14. echo, 15. involve, 16. snapshot, 17. videotape

18. con\_\_\_\_\_us improvement *adj.* occurring or existing without a pause or interruption
19. the a\_\_h of a person's foot *n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building
20. take an un\_\_\_\_\_in attitude *adj.* not being sure of something; not being able to choose
21. the stock market co\_\_\_\_\_sed *v.* to fall down or give way suddenly, often after breaking apart
22. so\_\_\_\_\_re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
23. far\_\_\_\_\_ed idea *adj.* (of an idea or story) so exaggerated or ludicrous as to be very difficult to believe
24. re\_\_\_\_\_e the computer error *v.* to find a suitable answer to the problems or difficulty
25. op\_\_\_\_\_ze a process *v.* to make the best or most effective use of something
26. active vo\_\_\_\_\_o *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
27. a cell phone with an internet  
fa\_\_\_\_\_ty *n.* a building or place that provides a particular service or is used for a particular industry
28. cry\_\_\_\_\_re research *n.* the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost

ANSWERS: 18. continuous, 19. arch, 20. uncertain, 21. collapse, 22. software, 23. far-fetched, 24. resolve, 25. optimize, 26. volcano, 27. facility, 28. cryosphere

29. inf\_\_\_\_\_ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
30. sub\_\_\_\_\_ce oil reserves *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
31. ob\_\_\_\_\_e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
32. historical ar\_\_\_\_\_es *n.* a collection of historical documents or records providing information about a place, institution, or group of people
33. a cold cl\_\_\_\_\_e *n.* the weather in a particular location averaged over some long period
34. conduct a com\_\_\_\_\_ive survey *adj.* complete and including all or everything necessary
35. eq\_\_p an army *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
36. as\_\_\_\_\_my science *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
37. tec\_\_\_\_\_cal policy *adj.* based on scientific and industrial progress

ANSWERS: 29. infrastructure, 30. subsurface, 31. observe, 32. archives, 33. climate, 34. comprehensive, 35. equip, 36. astronomy, 37. technological

38. sub\_\_\_\_\_ce mining *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
39. de\_\_\_\_\_te a plan *v.* to explode or cause to explode; to set off a sudden or dramatic series of events
40. di\_\_\_\_\_ct from each other *adj.* noticeable from something else of a similar type
41. the di\_\_t in the hundreds place *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
42. con\_\_\_\_\_ce as a teacher *n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something
43. environmental ind\_\_\_\_\_on *n.* a sign or remark that something exists, is real, or is likely to occur
44. fo\_\_\_\_\_te situation *adj.* having good luck or lucky
45. a he\_\_\_c poem *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
46. hi\_\_\_\_\_ic accomplishment *adj.* famous or significant in history, or potentially so
47. a very ta\_\_\_\_\_ed actor *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
48. gl\_\_\_\_\_rs move tardily *n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

ANSWERS: 38. subsurface, 39. detonate, 40. distinct, 41. digit, 42. confidence, 43. indication, 44. fortunate, 45. heroic, 46. historic, 47. talented, 48. glacier



49. gi\_\_t trees *adj.* enormous; much bigger or more important than similar items usually are
50. 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
51. an op\_\_\_\_\_ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
52. ve\_\_\_\_\_al axis *adj.* upright or perpendicular to a horizontal surface or line
53. tr\_\_\_\_\_it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
54. pas\_\_\_\_\_te speech *adj.* showing intense emotion or strong feeling; characterized by great enthusiasm or zeal; deeply committed to a cause or belief
55. br\_\_\_\_\_nt performance *adj.* extremely clever, skilled, or impressive
56. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
57. m\_r the reputation *v.* to damage or spoil the appearance or surface of something
58. commonly held mis\_\_\_\_\_ion *n.* a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis
59. be\_\_\_\_\_h contempt *adv.* in or to a lower place than someone or something

ANSWERS: 49. giant, 50. instrument, 51. opportune, 52. vertical, 53. transmit, 54. passionate, 55. brilliant, 56. lab, 57. mar, 58. misconception, 59. beneath

60. ele\_\_\_\_\_tic radiation      *adj.* of or relating to the magnetism produced by electric charge in motion
61. a zi\_\_\_g line      *adj.* having short sharp turns or angles
62. pos\_\_\_\_\_ty for growth      *n.* a chance that something may happen or be true
63. ra\_\_r air traffic control      *n.* a technology that employs radio waves to locate items that cannot be seen
64. pos\_\_\_\_\_ty of a major earthquake      *n.* a chance that something may happen or be true
65. contractual co\_\_\_\_\_ge      *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
66. b\_\_y emotion      *v.* to place a dead body in the ground, grave, or tomb
67. re\_\_\_\_\_er edition      *v.* to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality
68. bl\_\_d to the beauties      *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
69. a peaceful la\_\_\_\_\_pe      *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

ANSWERS: 60. electromagnetic, 61. zigzag, 62. possibility, 63. radar, 64. possibility, 65. coverage, 66. bury, 67. remaster, 68. blind, 69. landscape

70. br\_\_\_\_\_nt idea *adj.* extremely clever, skilled, or impressive
71. su\_\_\_t this function *n.* the time in the evening at which the sun begins to fall below the horizon; (verb) to expire or be terminated automatically at the end of a fixed period
72. la\_\_\_\_\_pe painting *n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance
73. perform fi\_\_\_\_\_rk *n.* real-world research or study conducted outside a library or laboratory.
74. 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
75. ai\_\_\_\_\_ne troop *adj.* moved or conveyed by or through the air; in the air
76. am\_\_\_\_\_g advances *adj.* extremely surprising, especially in a way that you like or admire
77. gla\_\_\_\_\_ist fieldwork *n.* a scientist who studies the formation, movement, and effects of glaciers and ice
78. ai\_\_\_\_\_ne particles *adj.* moved or conveyed by or through the air; in the air
79. general ca\_\_\_t *n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing

ANSWERS: 70. brilliant, 71. sunset, 72. landscape, 73. fieldwork, 74. optical, 75. airborne, 76. amazing, 77. glaciologist, 78. airborne, 79. caveat

80. con\_\_\_\_\_ted leaving school      *v.* to think about a possible future action or to think about something for a long time thoughtfully
81. de\_\_\_d against a threat      *v.* to protect someone or something from attack, criticism, danger, etc.
82. dy\_\_\_\_\_te-powered engine      *n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes
83. di\_\_t identifier      *n.* one of the elements that collectively form a system of numeration; a finger, thumb, or toe
84. a sl\_\_\_e of the company's revenue      *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
85. hidden ca\_\_\_e      *n.* a collection of items hidden away or stored for future use; (computer science) memory that is set aside as buffer storage that is frequently updated
86. sp\_\_\_\_\_l ability      *adj.* of or relating space and the position, area, and size of things
87. handy k\_\_\_b      *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
88. te\_\_\_\_\_al history      *adj.* of or relating to time as opposed to eternity
89. dis\_\_\_\_\_ent camp      *n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

ANSWERS: 80. contemplate, 81. defend, 82. dynamite, 83. digit, 84. slice, 85. cache, 86. spatial, 87. knob, 88. temporal, 89. displacement

90. 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.
91. di\_\_\_\_\_ct difference *adj.* noticeable from something else of a similar type
92. geo\_\_\_\_\_al data *adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography
93. the te\_\_\_\_\_ue applied to construction *n.* a particular way or art of doing something that needs skill
94. f\_\_t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery
95. the di\_\_\_\_\_ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
96. va\_\_\_\_\_on of temperature *n.* the act or state of changing; a difference or change in the way something is done, made or said
97. a ca\_\_\_\_t against unfair practices *n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing
98. op\_\_\_\_\_ze control for cooling *v.* to make the best or most effective use of something

ANSWERS: 90. satellite, 91. distinct, 92. geophysical, 93. technique, 94. feat, 95. diversity, 96. variation, 97. caveat, 98. optimize

99. cable r\_\_l *n.* a cylinder on which film, wire, or other flexible materials that can be wound
100. env\_\_\_\_\_nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
101. sl\_\_e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
102. in\_\_\_\_\_e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
103. fa\_\_\_\_\_ty design *n.* a building or place that provides a particular service or is used for a particular industry
104. gi\_\_t tech company *adj.* enormous; much bigger or more important than similar items usually are
105. b\_\_y in the earth *v.* to place a dead body in the ground, grave, or tomb
106. pro\_\_\_\_\_on of disease *n.* the act or process of changing to the next stage or phase or moving forward
107. field of con\_\_\_\_\_ary art *adj.* belonging to the same or present time
108. es\_\_\_\_\_te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
109. ind\_\_\_\_\_us worker *adj.* hardworking, diligent, and persistent in effort
110. 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

ANSWERS: 99. reel, 100. environment, 101. slice, 102. involve, 103. facility, 104. giant, 105. bury, 106. progression, 107. contemporary, 108. estimate, 109. industrious, 110. prototype

111. the e\_\_o of a person's footsteps      *n.* a sound heard after being reflected off a surface, such as a wall or a cliff
112. 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
113. add an as\_\_\_\_sk      *n.* a symbol (\*) used in text to indicate a footnote, omission of letters, or a reference to additional information; in sports, a symbol used to indicate a special achievement
114. co\_\_\_\_\_nt urinary diversion      *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
115. far\_\_\_\_\_ed expressions      *adj.* (of an idea or story) so exaggerated or ludicrous as to be very difficult to believe
116. a sop\_\_\_\_\_ted lifestyle      *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
117. al\_\_n the economic interest of each other      *v.* to put or arrange two or more things in a straight line or to form a straight line
118. achieve the hi\_\_\_\_ic feat      *adj.* famous or significant in history, or potentially so
119. mil\_\_\_\_\_um bottle of wine      *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
120. pr\_\_\_\_\_le of treatment      *n.* a fundamental law or truth that explains or controls how something happens or works

ANSWERS: 111. echo, 112. plot, 113. asterisk, 114. continent, 115. far-fetched, 116. sophisticated, 117. align, 118. historic, 119. millennium, 120. principle

121. a te\_\_\_\_\_ue in martial arts      *n.* a particular way or art of doing something that needs skill
122. und\_\_\_\_\_ate course      *n.* a student who is studying for their first degree at a university or other higher education institution
123. zi\_\_\_g sewing machine      *adj.* having short sharp turns or angles
124. con\_\_\_\_\_te a large sum of money to the fund      *v.* to give something, especially money or goods, to provide or achieve something together with other people
125. po\_\_r bears      *adj.* relating to, or close to, the North or South Pole; characterized by complete opposites
126. a six-r\_\_\_l film      *n.* a cylinder on which film, wire, or other flexible materials that can be wound
127. ind\_\_\_\_\_on of inflation      *n.* a sign or remark that something exists, is real, or is likely to occur
128. pr\_\_\_\_\_le in business      *n.* a fundamental law or truth that explains or controls how something happens or works
129. fashion me\_\_\_r      *n.* a person who helps and advises a younger or less experienced person over time, usually at work or school
130. be\_\_\_\_\_k geology      *n.* the solid rock underlying soil or alluvium
131. con\_\_\_\_\_te a marriage      *v.* to think about a possible future action or to think about something for a long time thoughtfully
132. al\_\_\_n with a historical trend      *v.* to put or arrange two or more things in a straight line or to form a straight line

ANSWERS: 121. technique, 122. undergraduate, 123. zigzag, 124. contribute, 125. polar, 126. reel, 127. indication, 128. principle, 129. mentor, 130. bedrock, 131. contemplate, 132. align



133. a weather ch\_\_t *n.* a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea
134. sta\_\_\_\_\_art technology *adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge
135. p\_\_r group *n.* a person who has the same age, status, or ability
136. be\_\_\_\_k foundation *n.* the solid rock underlying soil or alluvium
137. pre-mo\_\_\_n agricultural society *adj.* of or belonging to the present time or recent times
138. 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
139. re\_\_\_\_\_er a film *v.* to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality
140. es\_\_\_\_\_te a fair value *v.* to guess or calculate the cost, size, value, etc. of something

ANSWERS: 133. chart, 134. state-of-the-art, 135. peer, 136. bedrock, 137. modern, 138. process, 139. remaster, 140. estimate

141. mo\_\_\_n poetry *adj.* of or belonging to the present time or recent times
142. ele\_\_\_\_\_tic properties *adj.* of or relating to the magnetism produced by electric charge in motion
143. spectacular su\_\_\_t views *n.* the time in the evening at which the sun begins to fall below the horizon; (verb) to expire or be terminated automatically at the end of a fixed period
144. pen\_\_\_\_\_ng gaze *adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
145. past mil\_\_\_\_\_um *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
146. de\_\_\_y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
147. sp\_\_\_\_\_l distribution *adj.* of or relating space and the position, area, and size of things
148. col\_\_\_\_\_ion platform *n.* the act or situation of working together to create or produce something
149. the inland of a co\_\_\_\_\_nt *n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex
150. 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

ANSWERS: 141. modern, 142. electromagnetic, 143. sunset, 144. penetrating, 145. millennium, 146. deploy, 147. spatial, 148. collaboration, 149. continent, 150. develop

151. a statistical ch\_\_t *n.* a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea
152. ex\_\_\_\_\_ng news *adj.* causing a lot of interest or excitement
153. gi\_\_\_\_\_ic monsters *adj.* extremely large
154. laws of ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
155. IT inf\_\_\_\_\_ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
156. obs\_\_\_\_\_on instrument *n.* the act or activity of carefully examining or monitoring something or someone
157. und\_\_\_\_\_th the surface of the water *adv.* under or below something else
158. und\_\_\_\_\_th the laughter *adv.* under or below something else
159. 5-finger gl\_\_e *n.* a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger
160. numerous un\_\_\_\_\_in factors *adj.* not being sure of something; not being able to choose
161. less fo\_\_\_\_\_te person *adj.* having good luck or lucky
162. 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

ANSWERS: 151. chart, 152. exciting, 153. gigantic, 154. physics, 155. infrastructure, 156. observation, 157. underneath, 158. underneath, 159. glove, 160. uncertain, 161. fortunate, 162. planet

163. annotate with an as\_\_\_\_\_sk *n.* a symbol (\*) used in text to indicate a footnote, omission of letters, or a reference to additional information; in sports, a symbol used to indicate a special achievement
164. gene va\_\_\_\_\_on *n.* the act or state of changing; a difference or change in the way something is done, made or said
165. copyrighted so\_\_\_\_\_re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
166. the ground be\_\_\_\_\_h my feet *adv.* in or to a lower place than someone or something
167. 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
168. a com\_\_\_\_\_ive explanation *adj.* complete and including all or everything necessary
169. ba\_\_\_\_\_y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
170. ro\_\_y relationship *adj.* full of or abounding in rocks; of, relating to, or made of rock
171. bureau of ge\_\_\_\_\_y *n.* a science that deals with the history of the earth as recorded in rocks
172. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 163. asterisk, 164. variation, 165. software, 166. beneath, 167. pulse, 168. comprehensive, 169. battery, 170. rocky, 171. geology, 172. engineer

173. vo\_\_\_\_\_o alert level *n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.
174. full-co\_\_\_\_\_ge insurance *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
175. gla\_\_\_\_\_ist findings *n.* a scientist who studies the formation, movement, and effects of glaciers and ice
176. geo\_\_\_\_\_al exploration *adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography
177. engineering und\_\_\_\_\_ate *n.* a student who is studying for their first degree at a university or other higher education institution
178. dispel the mis\_\_\_\_\_ion *n.* a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis
179. he\_\_\_c explorers *adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring
180. vi\_\_\_\_\_pe evidence *n.* a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape

ANSWERS: 173. volcano, 174. coverage, 175. glaciologist, 176. geophysical, 177. undergraduate, 178. misconception, 179. heroic, 180. videotape

181. a con\_\_\_\_\_us row of warehouses      *adj.* occurring or existing without a pause or interruption
182. sta\_\_\_\_\_art software      *adj.* characterized by the use of the latest and most advanced technology or methods; cutting-edge
183. mo\_\_\_\_\_nt of troops      *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
184. a seafaring na\_\_\_\_n      *n.* a large organized community of people living in a particular country or region and having a particular culture
185. na\_\_\_\_n-state      *n.* a large organized community of people living in a particular country or region and having a particular culture
186. de\_\_\_\_y safety measures      *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
187. ready to co\_\_\_\_\_se      *v.* to fall down or give way suddenly, often after breaking apart
188. ta\_\_\_\_\_ed athlete      *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
189. the em\_\_\_\_\_on of light      *n.* the act of production or sending out gas, heat, light, etc.
190. 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

ANSWERS: 181. continuous, 182. state-of-the-art, 183. movement, 184. nation, 185. nation, 186. deploy, 187. collapse, 188. talented, 189. emission, 190. antenna

191. the cabin pressure fell dra\_\_\_\_\_lly     *adv.* in a very impressive manner
192. de\_\_\_t smuggling across borders     *v.* to find or recognize something, especially something difficult to see, hear, etc.
193. local ge\_\_\_\_\_y     *n.* a science that deals with the history of the earth as recorded in rocks
194. 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
195. st\_\_\_\_\_h along the coast     *v.* to make or be capable of making anything longer or broader without hurting or breaking
196. pas\_\_\_\_\_te kiss     *adj.* showing intense emotion or strong feeling; characterized by great enthusiasm or zeal; deeply committed to a cause or belief
197. medical l\_b     *n.* a workplace for the conduct of scientific research; a laboratory
198. pr\_\_\_\_\_t the future     *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
199. legal co\_\_\_\_\_t     *n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
200. 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

ANSWERS: 191. dramatically, 192. detect, 193. geology, 194. fabricate, 195. stretch, 196. passionate, 197. lab, 198. predict, 199. context, 200. pulse

201. am\_\_\_\_t air pollution *adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting
202. de\_\_\_\_d my country *v.* to protect someone or something from attack, criticism, danger, etc.
203. a right-hand gl\_\_e *n.* a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger
204. bl\_\_d spot *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
205. con\_\_\_\_\_te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
206. lingual di\_\_\_\_\_ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
207. me\_\_\_\_r for life *n.* a person who helps and advises a younger or less experienced person over time, usually at work or school
208. tr\_\_\_\_\_it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
209. beauty s\_\_t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

ANSWERS: 201. ambient, 202. defend, 203. glove, 204. blind, 205. contribute, 206. diversity, 207. mentor, 208. transmit, 209. spot



210. sop\_\_\_\_\_ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
211. ev\_\_\_e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
212. con\_\_\_\_\_ary leaders *adj.* belonging to the same or present time
213. nuclear ph\_\_\_\_s *n.* the science of matter and energy and their interactions
214. ro\_\_y terrain *adj.* full of or abounding in rocks; of, relating to, or made of rock
215. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
216. f\_\_e abroad *v.* to leave by running away, especially out of fear or danger
217. bu\_\_e with books *v.* to protrude or extend outward
218. 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
219. in\_\_\_\_\_te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
220. ex\_\_\_\_\_ng football player *adj.* causing a lot of interest or excitement

ANSWERS: 210. sophisticated, 211. evolve, 212. contemporary, 213. physics, 214. rocky, 215. engineer, 216. flee, 217. bulge, 218. optical, 219. institute, 220. exciting

221. realistic ti\_\_\_\_\_le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
222. early pr\_\_\_\_\_pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
223. se\_\_\_\_\_c activities *adj.* relating to or caused by an earthquake or earth vibration
224. pro\_\_\_\_\_on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
225. dy\_\_\_\_\_te fishing *n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes
226. he confessed dra\_\_\_\_\_lly *adv.* in a very impressive manner
227. 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
228. an\_\_\_\_\_e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
229. meticulous fi\_\_\_\_\_rk *n.* real-world research or study conducted outside a library or laboratory.
230. s\_\_n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information

ANSWERS: 221. timescale, 222. prototype, 223. seismic, 224. progression, 225. dynamite, 226. dramatically, 227. instrument, 228. analyze, 229. fieldwork, 230. scan

231. k\_\_b closure *n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
232. an ac\_\_\_\_y of music *n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field
233. f\_\_e their homes *v.* to leave by running away, especially out of fear or danger
234. op\_\_\_\_\_ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
235. a dry ba\_\_\_\_y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
236. ind\_\_\_\_\_us student *adj.* hardworking, diligent, and persistent in effort
237. re\_\_\_\_\_e a dispute *v.* to find a suitable answer to the problems or difficulty
238. a car with 1800 cc dis\_\_\_\_\_ent *n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation
239. 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
240. am\_\_\_\_t temperature *adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting

ANSWERS: 231. knob, 232. academy, 233. flee, 234. opportune, 235. battery, 236. industrious, 237. resolve, 238. displacement, 239. plot, 240. ambient

241. global em\_\_\_\_ons of greenhouse gases      *n.* the act of production or sending out gas, heat, light, etc.
242. effects of cl\_\_\_\_e change      *n.* the weather in a particular location averaged over some long period
243. pr\_\_\_\_t when she will arrive      *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
244. 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.
245. 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
246. an a\_\_h-shaped stone structure      *n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building
247. ve\_\_\_\_al takeoff      *adj.* upright or perpendicular to a horizontal surface or line
248. vul\_\_\_\_le parts of the body      *adj.* capable of being hurt or influenced physically or mentally
249. cost ba\_\_\_\_r      *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective

ANSWERS: 241. emission, 242. climate, 243. predict, 244. satellite, 245. fabricate, 246. arch, 247. vertical, 248. vulnerable, 249. barrier

250. bu\_\_e at the enterprise *v.* to protrude or extend outward
251. ca\_\_e memory *n.* a collection of items hidden away or stored for future use; (computer science) memory that is set aside as buffer storage that is frequently updated
252. col\_\_\_\_\_ion between companies *n.* the act or situation of working together to create or produce something
253. a te\_\_\_\_al restriction *adj.* of or relating to time as opposed to eternity
254. the most am\_\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
255. retreat of cry\_\_\_\_\_re *n.* the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost
256. a member of the Ac\_\_\_\_\_y *n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field
257. st\_\_\_\_\_le against discrimination *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
258. a branch of as\_\_\_\_\_my *n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies
259. an\_\_\_\_\_e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
260. ob\_\_\_\_\_e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 250. bulge, 251. cache, 252. collaboration, 253. temporal, 254. amazing, 255. cryosphere, 256. academy, 257. struggle, 258. astronomy, 259. analyze, 260. observe

261. a s\_\_t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
262. gi\_\_\_\_ic proportions *adj.* extremely large
263. 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
264. high fr\_\_\_\_\_cy *n.* an ordered array of colors into which a light beam can be split
265. pen\_\_\_\_\_ng analysis *adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
266. a vul\_\_\_\_\_le bridge *adj.* capable of being hurt or influenced physically or mentally
267. p\_\_r review *n.* a person who has the same age, status, or ability
268. developed sn\_\_\_\_ot *n.* an informal photograph, especially one taken quickly
269. digital ar\_\_\_\_\_es *n.* a collection of historical documents or records providing information about a place, institution, or group of people
270. fr\_\_\_\_\_cy band *n.* an ordered array of colors into which a light beam can be split
271. a circular mo\_\_\_\_\_nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 261. spot, 262. gigantic, 263. planet, 264. frequency, 265. penetrating, 266. vulnerable, 267. peer, 268. snapshot, 269. archives, 270. frequency, 271. movement

272. m\_r a proper relationship      *v.* to damage or spoil the appearance or surface of something
273. st\_\_\_\_le to get the job      *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
274. ev\_\_\_e      *v.* to develop gradually, or to cause the development of something or someone gradually
275. de\_\_\_\_te a missile      *v.* to explode or cause to explode; to set off a sudden or dramatic series of events
276. information ba\_\_\_\_r      *n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
277. po\_\_r regions      *adj.* relating to, or close to, the North or South Pole; characterized by complete opposites
278. boost my con\_\_\_\_\_ce      *n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something
279. research in\_\_\_\_\_tes      *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
280. chaotic env\_\_\_\_\_nt      *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 272. mar, 273. struggle, 274. evolve, 275. detonate, 276. barrier, 277. polar, 278. confidence, 279. institute, 280. environment

281. class obs\_\_\_\_\_on day                    *n.*    the act or activity of carefully examining or monitoring something or someone
282. intellectual f\_\_t                                *n.*    a notable or impressive achievement, especially one that requires great skill or bravery
283. st\_\_\_\_\_h a story                            *v.*    to make or be capable of making anything longer or broader without hurting or breaking
284. inv\_\_\_\_\_te the matter                    *v.*    to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

ANSWERS: 281. observation, 282. feat, 283. stretch, 284. investigate



## Session 3: Fill in the Blanks

1. 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
2. The findings of the experiment were both \_\_\_\_\_ and unexpected.  
*adj.* causing a lot of interest or excitement
3. Aging societies tend to require huge costs for \_\_\_\_\_ maintenance.  
*n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
4. The muscles in his arm \_\_\_\_\_ as he lifted the heavyweights.  
*v.* to protrude or extend outward
5. 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
6. The \_\_\_\_\_ nature of the universe is a subject of much debate among scientists.  
*adj.* of or relating to time as opposed to eternity
7. 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

ANSWERS: 1. progression, 2. exciting, 3. infrastructure, 4. bulged, 5. process, 6. temporal, 7. optical

8. The teacher attempted to \_\_\_\_\_ the root cause of our mistake.  
*v.* to think about in-depth and evaluate to discover essential features or meaning
9. 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
10. The \_\_\_\_\_ beneath the soil is extremely solid and stable.  
*n.* the solid rock underlying soil or alluvium
11. 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
12. The \_\_\_\_\_ road made it difficult to drive on.  
*adj.* full of or abounding in rocks; of, relating to, or made of rock
13. The \_\_\_\_\_ lighting in the restaurant created a cozy and romantic atmosphere.  
*adj.* relating to the immediate surroundings of something; creating a particular atmosphere or mood, often through sound or lighting
14. The roof finally \_\_\_\_\_ after three days and three nights of heavy snowfall.  
*v.* to fall down or give way suddenly, often after breaking apart
15. The amount of \_\_\_\_\_ pollen this year is higher than usual.  
*adj.* moved or conveyed by or through the air; in the air

ANSWERS: 8. analyze, 9. environment, 10. bedrock, 11. fabricated, 12. rocky, 13. ambient, 14. collapsed, 15. airborne

16. Marketing strategies are growing more \_\_\_\_\_.

*adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

17. Recent electoral shocks have shaken the political \_\_\_\_\_ in Europe.

*n.* an expanse of scenery that can be seen in a single view; a large area of land, especially in the country and relating to its appearance

18. Though his plan sounded \_\_\_\_\_ at first, he realized it anyway.

*adj.* (of an idea or story) so exaggerated or ludicrous as to be very difficult to believe

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

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

20. She was wearing a black \_\_\_\_\_.

*n.* a piece of clothing worn on the hand and wrist for protection against cold, dirt, etc., with separate parts for each finger

21. It is essential to keep these two issues \_\_\_\_\_.

*adj.* noticeable from something else of a similar type

22. 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

23. The oscillator hunts for the correct \_\_\_\_\_.

*n.* an ordered array of colors into which a light beam can be split

ANSWERS: 16. sophisticated, 17. landscape, 18. far-fetched, 19. engineer, 20. glove, 21. distinct, 22. pulse, 23. frequency

24. It is important to \_\_\_\_\_ safety procedures in the workplace to prevent accidents.
- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
25. He was pretty \_\_\_\_\_ to pass the exam.
- adj.* having good luck or lucky
26. His hypothesis concerns the role of an \_\_\_\_\_ field in human health.
- adj.* of or relating to the magnetism produced by electric charge in motion
27. The essence of economics is to \_\_\_\_\_ the allocation of limited resources.
- v.* to make the best or most effective use of something
28. She was \_\_\_\_\_ about her friend's intentions.
- adj.* not being sure of something; not being able to choose
29. The \_\_\_\_\_ bears the weight of the overhead bridge.
- n.* a curved structure with two supports that holds the weight of something above it, such as a bridge or the upper part of a building
30. The \_\_\_\_\_ at the library contain a wealth of information about the city's history.
- n.* a collection of historical documents or records providing information about a place, institution, or group of people
31. The \_\_\_\_\_ of the residents was a consequence of the construction of the new highway.
- n.* the act of forcing someone or something to leave their home or place of origin, especially as a result of conflict, natural disaster, or manipulation

ANSWERS: 24. observe, 25. fortunate, 26. electromagnetic, 27. optimize, 28. uncertain, 29. arch, 30. archives, 31. displacement

32. 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
33. 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
34. She was nearly \_\_\_\_\_ due to severe diabetes.
- adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
35. 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.
36. It's important to understand the \_\_\_\_\_ of a situation before making a decision.
- n.* the circumstances, facts, or conditions that surround a particular event, situation, or statement and that give it meaning
37. He is in the \_\_\_\_\_ of his life.
- n.* the time in the evening at which the sun begins to fall below the horizon; (verb) to expire or be terminated automatically at the end of a fixed period
38. The bomb squad had to \_\_\_\_\_ the suspicious package found at the train station.
- v.* to explode or cause to explode; to set off a sudden or dramatic series of events

ANSWERS: 32. equipped, 33. variation, 34. blind, 35. satellite, 36. context, 37. sunset, 38. detonate

39. The sound of the \_\_\_\_\_ explosion could be heard for miles.
- n.* a powerful explosive made from nitroglycerin, typically used in construction and mining; something that causes strong, sudden reactions or changes
40. This company has an entire recycling \_\_\_\_\_ including major reprocessing plants.
- n.* a building or place that provides a particular service or is used for a particular industry
41. She stood on the podium and \_\_\_\_\_ an audience.
- v.* to examine something hastily, with the eyes or with a machine, to get information
42. This pie \_\_\_\_\_ represents our market share.
- n.* a visual display of information such as a diagram, lists of figures, etc.; a map designed to assist navigation by air or sea
43. The \_\_\_\_\_ layers of the ocean are still largely unexplored.
- adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
44. We watched a \_\_\_\_\_ of our family vacation from years ago.
- n.* a type of magnetic tape used for recording and storing video images and sound; a recording made on such tape
45. The more \_\_\_\_\_ you are, the more people around you look at you with envy and jealousy.
- adj.* extremely clever, skilled, or impressive

ANSWERS: 39. dynamite, 40. facility, 41. scanned, 42. chart, 43. subsurface, 44. videotape, 45. brilliant

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

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

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

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

48. \_\_\_\_\_ and weather have an impact on every part of our lifestyles.

*n.* the weather in a particular location averaged over some long period

49. He carefully determined the \_\_\_\_\_ relations of every piece of the stage set.

*adj.* of or relating space and the position, area, and size of things

50. This region has many \_\_\_\_\_ offering higher education.

*n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

51. We had to go through a \_\_\_\_\_ course.

*adj.* having short sharp turns or angles

52. The \_\_\_\_\_ on the sign indicated that there were additional terms and conditions.

*n.* a symbol (\*) used in text to indicate a footnote, omission of letters, or a reference to additional information; in sports, a symbol used to indicate a special achievement

53. The committee \_\_\_\_\_ several apparent inconsistencies.

*v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

ANSWERS: 46. amazing, 47. opportune, 48. Climate, 49. spatial, 50. institutes, 51. zigzag, 52. asterisk, 53. investigated

54. The scratches on the car \_\_\_\_\_ its otherwise perfect appearance.  
*v.* to damage or spoil the appearance or surface of something
55. \_\_\_\_\_ animals are graceful and efficient swimmers.  
*adj.* relating to, or close to, the North or South Pole; characterized by complete opposites
56. Parents often \_\_\_\_\_ their characteristics to their children.  
*v.* to send or forward an electronic signal; to pass something from one person or thing to another
57. Skill and \_\_\_\_\_ are an unconquered army.  
*n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something
58. Her new documentary earned her an \_\_\_\_\_ Award.  
*n.* a school for special training; a type of official organization that aims to encourage and develop standards in its particular field
59. There are five distinct \_\_\_\_\_ at five unique wavelengths.  
*n.* the act of production or sending out gas, heat, light, etc.
60. 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
61. The ladder leaned against the \_\_\_\_\_ surface of the building.  
*adj.* upright or perpendicular to a horizontal surface or line

ANSWERS: 54. marred, 55. Polar, 56. transmit, 57. confidence, 58. Academy, 59. emissions, 60. plot, 61. vertical



62. Their \_\_\_\_\_ argument lasted for hours, neither willing to back down.  
*adj.* showing intense emotion or strong feeling; characterized by great enthusiasm or zeal; deeply committed to a cause or belief
63. This company \_\_\_\_\_ its battery problem completely.  
*v.* to find a suitable answer to the problems or difficulty
64. We \_\_\_\_\_ the season's total trade deficit at \$50 billion.  
*v.* to guess or calculate the cost, size, value, etc. of something
65. The police placed a \_\_\_\_\_ across the street to halt traffic.  
*n.* a fence or other obstruction that makes it hard to move or get in; any condition that makes it difficult to make progress or to achieve an objective
66. This remote \_\_\_\_\_ is rarely visited.  
*n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
67. A thunderous boom \_\_\_\_\_ throughout the valley.  
*n.* a sound heard after being reflected off a surface, such as a wall or a cliff
68. I recently \_\_\_\_\_ dropping out of school and getting a full-time job.  
*v.* to think about a possible future action or to think about something for a long time thoughtfully
69. The \_\_\_\_\_ of Japan is known for its unique culture and advanced technology.  
*n.* a large organized community of people living in a particular country or region and having a particular culture

ANSWERS: 62. passionate, 63. resolves, 64. estimated, 65. barrier, 66. spot, 67. echoed, 68. contemplated, 69. nation

70. 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

71. The band decided to \_\_\_\_\_ their debut album for its 20th anniversary.

- v.* to modify, enhance, or improve the quality of a previously recorded audio or video work, typically by using more advanced technology or techniques; (noun) the process of adjusting the audio levels, cleaning up noise or imperfections, and optimizing overall sound or picture quality

72. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.

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

73. \_\_\_\_\_ surveys study the physical characteristics of the Earth's surface and subsurface.

- adj.* relating to the physical characteristics and processes of the Earth and its surrounding atmospheres, such as geology, meteorology, and oceanography

74. Infants and pregnant women are particularly \_\_\_\_\_.

- adj.* capable of being hurt or influenced physically or mentally

75. The penny fell \_\_\_\_\_ the piano.

- adv.* under or below something else

76. Their headquarters are in a \_\_\_\_\_ skyscraper.

- adj.* of or belonging to the present time or recent times

77. As a \_\_\_\_\_ he helped me realize my career.

- n.* a person who helps and advises a younger or less experienced person over time, usually at work or school

ANSWERS: 70. planet, 71. remaster, 72. lab, 73. Geophysical, 74. vulnerable, 75. underneath, 76. modern, 77. mentor,

78. The \_\_\_\_\_ on the drawer was loose and needed to be tightened.
- n.* a round handle, especially one used for opening or closing a door, drawer, or cabinet
79. 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
80. Climate change is causing rapid melting of the \_\_\_\_\_ which has far-reaching consequences.
- n.* the frozen part of the Earth's surface, including snow, ice, glaciers, icebergs, and permafrost
81. The \_\_\_\_\_ jets gradually dominate the world's airlines.
- adj.* enormous; much bigger or more important than similar items usually are
82. Both parties are now entirely ideologically \_\_\_\_\_.
- v.* to put or arrange two or more things in a straight line or to form a straight line
83. The \_\_\_\_\_ for completing the construction project is three years.
- n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
84. We often ignore important \_\_\_\_\_ from nature.
- n.* a warning against certain acts; (law) a formal notice filed with a court or officer to suspend a proceeding until the filer is given a hearing
85. The heavy snow has been \_\_\_\_\_ since last morning.
- adj.* occurring or existing without a pause or interruption

ANSWERS: 78. knob, 79. involves, 80. cryosphere, 81. giant, 82. aligned, 83. timescale, 84. caveats, 85. continuous

86. Numerous instances from \_\_\_\_\_ show these hypotheses in great detail.  
*n.* real-world research or study conducted outside a library or laboratory.
87. There are numerous \_\_\_\_\_ about food and health.  
*n.* a belief or an idea that is wrong because it has been based on faulty thinking, understanding, or hypothesis
88. 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
89. 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.
90. \_\_\_\_\_ advances have disrupted many industries.  
*adj.* based on scientific and industrial progress
91. The children complained because one \_\_\_\_\_ of cake was slightly larger than the other.  
*n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
92. A great stretch of the lake lay \_\_\_\_\_ them.  
*adv.* in or to a lower place than someone or something
93. The \_\_\_\_\_ of the ice age have shaped Fjord.  
*n.* a slowly moving mass of ice formed from snow on mountains or near the North Pole or the South Pole

ANSWERS: 86. fieldwork, 87. misconceptions, 88. digit, 89. defend, 90. Technological, 91. slice, 92. beneath, 93. glaciers

94. He studied the \_\_\_\_\_ of radiation.

*n.* the science of matter and energy and their interactions

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

*adv.* in a very impressive manner

96. Jockey's superior \_\_\_\_\_ brought him victory.

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

97. There is plenty of space to \_\_\_\_\_ everyone.

*v.* to place a dead body in the ground, grave, or tomb

98. 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

99. The \_\_\_\_\_ smell of freshly brewed coffee filled the room.

*adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

100. He could not \_\_\_\_\_ against temptation.

*v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

101. The partnership program requires a mutual \_\_\_\_\_ between both agencies.

*n.* the act or situation of working together to create or produce something

ANSWERS: 94. physics, 95. dramatically, 96. technique, 97. bury, 98. instrument, 99. penetrating, 100. struggle, 101. collaboration

102. The \_\_\_\_\_ of getting the disease will drastically increase.

*n.* a chance that something may happen or be true

103. The \_\_\_\_\_ research revealed that the glacier has been shrinking alarmingly.

*n.* a scientist who studies the formation, movement, and effects of glaciers and ice

104. He was a visiting \_\_\_\_\_ professor at the University of Tokyo.

*n.* a science that deals with the history of the earth as recorded in rocks

105. Government workers cannot \_\_\_\_\_ to political campaigns.

*v.* to give something, especially money or goods, to provide or achieve something together with other people

106. The security camera has \_\_\_\_\_ four intruders.

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

107. 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

108. \_\_\_\_\_ music has gained different followers from existing music.

*adj.* belonging to the same or present time

109. I found a \_\_\_\_\_ of old letters in the attic.

*n.* a collection of items hidden away or stored for future use; (computer science) memory that is set aside as buffer storage that is frequently updated

110. Earthquakes produce two types of \_\_\_\_\_ waves.

*adj.* relating to or caused by an earthquake or earth vibration

ANSWERS: 102. possibility, 103. glaciologist's, 104. geology, 105. contribute, 106. detected, 107. prototype, 108. Contemporary, 109. cache, 110. seismic

111. We have a \_\_\_\_\_ grasp of this topic.

*adj.* complete and including all or everything necessary

112. She is a \_\_\_\_\_ musician, able to play several instruments.

*adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area

113. Our world is in the third \_\_\_\_\_.

*n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)

114. Eyeless fish \_\_\_\_\_ in dark caves.

*v.* to develop gradually, or to cause the development of something or someone gradually

115. He put the fishing line on the \_\_\_\_\_ and cast his line into the water.

*n.* a cylinder on which film, wire, or other flexible materials that can be wound

116. Some herds have been observed to \_\_\_\_\_ hundreds of kilometers.

*v.* to make or be capable of making anything longer or broader without hurting or breaking

117. 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

118. He was so hungry from the long journey that he had a \_\_\_\_\_ appetite.

*adj.* extremely large

ANSWERS: 111. comprehensive, 112. talented, 113. millennium, 114. evolved, 115. reel, 116. stretch, 117. develop, 118. gigantic

119. Among young people, \_\_\_\_\_ pressure can be pretty influential.

*n.* a person who has the same age, status, or ability

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

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

121. 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

122. Faces are a good \_\_\_\_\_ of age.

*n.* a sign or remark that something exists, is real, or is likely to occur

123. He had a deep passion for extragalactic \_\_\_\_\_ and spent hours observing the night sky.

*n.* the scientific study of objects and matter outside the Earth's atmosphere, especially the positions, motions, and evolution of celestial bodies

124. The company specializes in both hardware and \_\_\_\_\_.

*n.* a set of computer programs and associated documentation and data for doing particular computational jobs

125. The \_\_\_\_\_ of the dancers on stage was graceful and elegant.

*n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

126. Flight across the \_\_\_\_\_ was a daring adventure in its day.

*n.* one of the earth's large landmasses; (adjective) abstaining from your feelings, especially your desire to have sex

ANSWERS: 119. peer, 120. principle, 121. antenna, 122. indication, 123. astronomy, 124. software, 125. movement, 126. continent



127. The scandal received widespread media \_\_\_\_\_.

- n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

128. This country \_\_\_\_\_ its weapons in the east region.

- v.* to move troops or weapons into a position or military action; to bring into something in an effective way

129. The Chinese people have accomplished several \_\_\_\_\_ feats.

- adj.* famous or significant in history, or potentially so

130. The island was formed by a \_\_\_\_\_ millions of years ago.

- n.* a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapor, and gas are or have been erupted from the earth's crust.

131. The class was composed of both \_\_\_\_\_ and graduate students.

- n.* a student who is studying for their first degree at a university or other higher education institution

132. In the hospital, she will remain under constant \_\_\_\_\_.

- n.* the act or activity of carefully examining or monitoring something or someone

133. It's notoriously challenging to \_\_\_\_\_ birth rates.

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

134. The \_\_\_\_\_ actions of individuals are now easily spread worldwide by SNS.

- adj.* courageous and daring; having or displaying qualities appropriate for legendary figures that is courage and daring

ANSWERS: 127. coverage, 128. deployed, 129. historic, 130. volcano, 131. undergraduate, 132. observation, 133. predict, 134. heroic

135. 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

136. It is a basic instinct to \_\_\_\_\_ from a dangerous situation.

*v.* to leave by running away, especially out of fear or danger

137. He was impressed by the range and \_\_\_\_\_ of the collection.

*n.* the quality or fact of many different types of things or people being included in something; a range of different things or people

138. \_\_\_\_\_ systems cannot spot the submarine.

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

139. The engine did not start because the \_\_\_\_\_ was flat.

*n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

140. He was known to be very \_\_\_\_\_ and would often work late into the night.

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

141. There were framed \_\_\_\_\_ of family and friends in her room.

*n.* an informal photograph, especially one taken quickly

142. 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

ANSWERS: 135. state-of-the-art, 136. flee, 137. diversity, 138. Radar, 139. battery, 140. industrious, 141. snapshots, 142. feat

ANSWERS: