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Vocabulary Builder Reference from...

Honor Harger: A history of the universe in sound | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

surround

v. to be all around something or somebody

synonym: encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace
On three sides, mountains **surround** the settlement.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym: assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

fiction

n. the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

synonym: fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

inspiration

n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

synonym: motivation, drive, encouragement

(1) source of **inspiration**, (2) get **inspiration** from nature
He found **inspiration** in the works of his favorite authors.

vision

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

synonym: sight, image, concept

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

increasingly

adv. more and more

synonym: more and more, progressively

(1) **increasingly** become common, (2) face **increasingly** complicated challenges

Our company found it **increasingly** difficult to keep up with the competition.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

overwhelming

adj. very great or intense; so powerful that you cannot fight or react against it

synonym: overpowering, astounding, amazing

(1) **overwhelming** majority, (2) an **overwhelming** victory
He has shown signs of uneasiness and **overwhelming** worry.

vivid

adj. producing very clear, powerful, and detailed images in the mind

synonym: intense, powerful, dazzling

(1) **vivid** colors, (2) still **vivid** in my memory
She made a **vivid** impression.

visual

adj. relating to seeing or sight

synonym : optical, graphical, visible

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

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

associate

v. to mentally connect someone or something with someone or something else

synonym : tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

silent

adj. without any or little sound

synonym : quiet, hushed, mute

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

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

universe

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

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.

static

adj. not moving or not capable of moving, not changing or not capable of changing

synonym : immobile, unchanging, fixed

(1) **static** electricity, (2) **static** website

The **static** image on the screen took a lot of work to make

out.

crackle

- v. to make a succession of slight popping sounds, often due to the heating or drying of some materials, such as firewood, paper, plastic, or food; to snap, crack, or crunch; (noun) a series of sharp, popping sounds that are caused by the rapid expansion and contraction of a material, such as wood or paper, due to changes in temperature or humidity

synonym: sizzle, hiss, snap

(1) **crackle** on the gravel road, (2) the **crackle** of the thunder

The firewood **crackled** and popped into the fireplace, sending sparks up the chimney.

Jovian

adj. relating to Jupiter or its characteristics

synonym: Jupiter, giant planet

(1) **Jovian** satellites, (2) **Jovian** planet

The **Jovian** moon Europa is believed to have an ocean beneath its icy surface.

probe

- n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

synonym: investigation, inquiry, examination

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

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

pirouette

- n. a rapid spin of the body on the toes or the front part of the foot, especially performed by a ballet dancer

synonym: gyration, whirl, gyration

(1) perform a **pirouette**, (2) moves into a **pirouette**

She turned a triple **pirouette** on the ice.

condense

- v. to reduce the volume or size of something, often by removing water or other liquid; to make something

shorter, more concise, or more concentrated

synonym : compress, compact, shorten

(1) **condense** the text, (2) **condense** water vapor

I need to **condense** all of my notes into a manageable summary for my presentation.

clump

n. a small group of bushes, trees, flowers, people, etc.

synonym : cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

neutral

adj. not helping or assisting either side in a conflict, argument, etc.

synonym : impartial, uninvolved, halfhearted

(1) permanently **neutral** country, (2) **neutral** colors

A legislative speaker should always be **neutral**.

spinning

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

synonym : whirling, rotating, spinning wheel

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

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

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym : far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

tap

v. to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.

synonym : knock, exploit, use

(1) **tap** a new market, (2) **tap** keyboard with an index finger

To expand the company, we must **tap** new human resources.

artistic

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

synonym : beautiful, aesthetic, creative

(1) an **artistic** photograph, (2) cultural and **artistic** activity

Promising entrepreneurs often have a high **artistic** sensibility.

weird

adj. extraordinary, unexpected, or difficult to explain

synonym : bizarre, creepy, peculiar

(1) a **weird** dress, (2) the state of being **weird**

My computer has been acting **weird** recently.

emit

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

synonym : give off, radiate, expel

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

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

magnificent

adj. extremely beautiful and impressive; grand or noble in thought or deed

synonym : splendid, brilliant, exquisite

(1) a **magnificent** plan, (2) a **magnificent** mountain

The **magnificent** scene of the glacier is awe-inspiring.

celestial

adj. relating to the sky or the heavens; of or like the sky or the heavens

synonym : heavenly, divine, ethereal

(1) **celestial** bliss, (2) **celestial** navigation

The **celestial** bodies in the night sky were beautiful to behold.

pulsar

n. a highly magnetized, rotating neutron star that emits beams of electromagnetic radiation, which can be observed as regular pulses of light

synonym : neutron star, pulsating star, radio star

(1) **pulsar** magnetosphere, (2) gamma-ray **pulsar**

The astronomers detected a **pulsar** in the center of the galaxy.

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.

astronomer

n. a physicist who studies astronomy

synonym: stargazer, cosmologist, astrophysicist

(1) amateur **astronomer**, (2) solar **astronomer**

This question has fascinated solar **astronomers** for decades.

sensitive

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

synonym: exposed, susceptible, keen

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

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

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

receiver

n. the part of a phone that you hold close to your ear and mouth; a person who receives something

synonym: acceptor, recipient, collector

(1) a GPS **receiver**, (2) aid **receiver**

Delivery companies often require the **receiver's** signature to

certify the completion of package delivery.

precise

adj. sharply exact or accurate or delimited

synonym : accurate, exact, distinct

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

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

astronomical

adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude

synonym : huge, vast, enormous

(1) **astronomical** observation, (2) **astronomical** numbers

The cost of the new equipment was **astronomical** and beyond the company's budget.

convert

v. to have a talk with someone; (adjective) reversed in order, relation, or action

synonym : alter, remake, transform

(1) **convert** fat into energy, (2) **convert** base 10 to base 16

I want to **convert** my sadness into strength.

transmission

n. the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television

synonym : transportation, communication, broadcast

(1) **transmission** speed, (2) the **transmission** gears of a car

Education is the **transmission** of civilization.

analog

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

(1) an **analog** watch, (2) digitization of **analog** sounds

Mercury thermometers are a type of **analog** sensor.

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.

uncover

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

synonym : disclose, reveal, unveil

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

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

punctuate

v. to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically

synonym : emphasize, accent, mark

(1) **punctuate** a sentence, (2) **punctuate** his talk

Strikes had also **punctuated** the preceding weeks.

anecdote

n. a short and amusing or interesting story about a real incident or person

synonym : story, account, tale

(1) personal **anecdote**, (2) funny **anecdote**

She entertained the guests with **anecdotes** about her travels and experiences.

accidental

adj. happening or existing by chance or unintentionally

synonym : inadvertent, fortuitous, coincidental

(1) **accidental** death, (2) cover **accidental** damage

This system prevents **accidental** deletion of data.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym : meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm

I'm prepared to **encounter** challenges throughout this

adventure.

vast

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

synonym: expansive, extended, boundless

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

A **vast** audience viewed the broadcast.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

futurist

n. a person who studies or predicts trends and developments, particularly in science, technology, or social systems, to anticipate what the future may hold

synonym: foreseer, prophet, fortune-teller

(1) **futurist** architecture, (2) **futurist** ideas

The radical **futurist** predicted that virtual reality would become a standard in everyday life.

spacecraft

n. a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

synonym: spaceship, satellite, probe

(1) **spacecraft** launch, (2) alien **spacecraft**

The human-crewed **spacecraft** successfully landed on the moon, fulfilling its mission.

humble

adj. having or showing a modest or low estimate of one's quality or importance

synonym: modest, unpretentious, abject

(1) a **humble** cottage, (2) **humble** opinion

The nobler, the more **humble**.

medium

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

synonym : average, intermediate, (noun) channel

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

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

telecom

n. (a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet

synonym : communication, telecommunications, telephony

(1) **telecom** industry, (2) **telecom** service providers

The **telecom** company is planning to launch a new smartphone next month.

revolution

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

synonym : coup, innovation, rebellion

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

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

graham

n. a type of flour made from whole wheat that has had the bran and germ removed and is often used to make crackers or cookies; a cracker made with this type of flour

synonym : cracker, biscuit, wafer

(1) **graham** bread, (2) **graham** flour

I enjoyed my camping trip with friends, toasting marshmallows over a glowing **graham** cracker.

invention

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

synonym : creation, design, innovation

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

Necessity is the mother of **invention**.

rooftop

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

synonym: roof, terrace, deck

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

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

inadvertently

adv. unintentionally; accidentally; without purpose or deliberate intent

synonym: unknowingly, unintentionally, accidentally

(1) **inadvertently** deleted, (2) **inadvertently** omitted

I **inadvertently** left my phone at home this morning and felt lost.

hiss

v. to make a sound similar to a sharp exhalation or steam escaping under pressure, often expressing disapproval, anger, or fear; to produce a sound that is shrill and prolonged, often resembling the hissing of a snake; (noun) a sound or noise made by a person or animal, characterized by a sharp, prolonged "s" sound

synonym: whish, sibilate, wheeze

(1) **hiss** warningly at the intruder, (2) the **hiss** of a snake

The cat arched its back and **hissed** at the approaching dog.

chirp

n. a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

synonym: tweet, chirrup, peep

(1) the **chirp** of a bird, (2) the **chirp** of a cricket

The sound of the **chirp** woke me up early in the morning.

whistle

v. to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

synonym: sound, honk, tweet

(1) **whistle** a tune, (2) **whistle** for help

The employee decided to **whistle-blow** on the company's

illegal activities.

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.

hertz

n. the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

synonym: frequency, cycles per second

(1) audio **hertz**, (2) tera- **hertz** radiation

The human ear can detect sounds with frequencies ranging from 20 to 20,000 **hertz**.

existence

n. the state or fact of someone or something existing

synonym: fact, being, reality

(1) the biggest tree in **existence**, (2) the struggle for **existence**

He was an atheist and therefore did not believe in the **existence** of heaven or hell.

circuit

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

synonym: route, course, rotation

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

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

broadcast

v. to send out a program or some information on radio or television

synonym: air, announce, advertise

(1) **broadcast** a concert, (2) **broadcast** a radio ad

Most of the programs are **broadcast** in this area.

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.

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**.

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.

lightning

n. a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash

synonym: bolt, electrical discharge

(1) streaks of **lightning**, (2) **lightning** air strike

The human eye is **lightning-fast** in recognizing objects.

eerie

adj. strange, or frightening; suggestive of the supernatural

synonym: bizarre, creepy, dreadful

(1) **eerie** silence, (2) the **eerie** whistle of dropping bombs

The street was entirely silent and a bit **eerie**.

melodious

adj. pleasing or agreeable to the ear; characterized by a sweet or harmonious sound; musical or tuneful in nature

synonym: harmonious, musical, tuneful

(1) **melodious** voice, (2) **melodious** harmony

The wind chimes hanging in the garden made a **melodious** sound when the wind blew, adding charm to the atmosphere.

exotic

adj. originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing

synonym : foreign, alien, unfamiliar

(1) **exotic** species, (2) **exotic** vacation

I love trying **exotic** foods from different cultures.

origin

n. the first existence or beginning of something

synonym : root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

dial

v. to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called

synonym : adjust, set, turn

(1) **dial** up the volume, (2) **dial** down the tension

He **dialed** the phone number and waited for an answer.

heaven

n. (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty

synonym : paradise, nirvana, utopia

(1) ascend to **heaven**, (2) **heaven** on earth

He felt like **heaven** when he tasted the delicious chocolate cake.

solar

adj. of, from, or relating to the sun

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

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

interact

v. to communicate or react with somebody

synonym : cooperate, combine, collaborate

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

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

ionosphere

n. the region of the Earth's atmosphere that starts at about 50 kilometers above the surface and extends into outer space, containing a high concentration of ions and free electrons

synonym: upper atmosphere, atmosphere, stratosphere

(1) upper **ionosphere**, (2) mid-latitude **ionosphere**

Scientists use **ionosphere** monitoring stations to keep track of solar activities and their impact on our planet.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym: marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

latitude

n. the distance of a place north or south of the earth's equator, measured in degrees; freedom from normal restraints in conduct

synonym: breadth, range, freedom

(1) high **latitudes**, (2) **latitude** of choice

The city is located at a **latitude** of 40 degrees north.

aurora

n. a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic

(1) **aurora** watching, (2) polar **aurora**

Northern and southern hemispheres alike experience the **aurora**.

usher

n. a person who shows people to their seats in a theater or church or who guides them through a building

synonym : guide, escort, conductor

(1) act as **usher**, (2) **usher** theater

The uniformed **usher** showed the guests to their seats.

discovery

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

synonym : finding, uncovering, detection

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

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

accidentally

adv. by chance or without planning

synonym : by chance, unintentionally, unwittingly

(1) they met **accidentally**, (2) **accidentally** coincide

He was **accidentally** killed by friendly fire.

tune

n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

synonym : melody, harmony, (verb) adjust

(1) the **tune** of a song, (2) **tune** a piano

The band played a beautiful **tune** on their instruments.

fast-forward

v. to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording

synonym : advance, hasten, speed up

(1) **fast-forward** 10 seconds, (2) **fast-forward** to the good part

I like to **fast-forward** through commercials when watching TV shows.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

communicate

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

synonym: convey, share, transmit

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

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

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

sling

v. to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something

synonym: throw, hang, (noun) harness

(1) **sling** an arrow, (2) **sling** shot

The children were playing by **slinging** stones at the monument.

cable

n. a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

synonym: wire, cord, rope

(1) **cable** television, (2) coaxial **cable**

This system uses submarine **cables** to exchange information between continents.

Atlantic

adj. relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east

(1) **Atlantic** breeze, (2) **Atlantic** salmon

The **Atlantic** hurricane season runs from June to November each year.

seabed

n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms

synonym : ocean floor, sea bottom

(1) **seabed** mining, (2) **seabed** habitat

The dense coral reefs on the **seabed** provide a home for various marine life.

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.

interference

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

synonym : obstruction, hindrance, impedance

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

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

employ

v. to give somebody a job and pay them for it; to make use of

synonym : hire, engage, use

(1) **employ** job seekers, (2) **employ** a new method

When making arrests, police officers frequently **employ** excessive force.

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.

hardware

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

electronic systems

synonym : gear, apparatus, gadget

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

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

codec

n. a device or software algorithm that compresses or decompresses digital audio or video data, allowing for efficient transmission or storage

synonym : compression-decompression algorithm

(1) audio **codec**, (2) video **codec**

The video file could not be played because the necessary **codec** was missing.

rid

v. to make someone or something free of unwanted or unpleasant tasks, objects, or person

synonym : do away with, free, clear

(1) get **rid** of the rats, (2) **rid** the body of waste products

We must **rid** ourselves of pollution.

telephony

n. the technology or operation of telecommunication; the transmission of sound and information over long distances using telephone or other telecommunication devices

synonym : telecommunication, phone system

(1) **telephony** services, (2) digital **telephony**

The **telephony** industry constantly innovates to keep up with new technologies and changing customer needs.

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.

fairly

adv. to a certain extent or degree; without favoring one party in an evenhanded manner

synonym: moderately, reasonably, pretty

(1) **fairly** accurate, (2) have a **fairly** clear view

He deals **fairly** with his employees.

prosaic

adj. lacking excitement, imagination, or originality; dull, ordinary, or commonplace; relating to or characteristic of prose rather than poetry

synonym: mundane, ordinary, dull

(1) **prosaic** language, (2) **prosaic** approach

The book's **prosaic** writing style left me uninterested despite the dramatic premise.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

persistent

adj. continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

synonym: tenacious, steadfast, unrelenting

(1) **persistent** cough, (2) **persistent** data

Despite the setbacks, he remained **persistent** in his pursuit of his dreams.

identify

v. to recognize someone or something and say or prove who or what they are

synonym: determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

headset

n. a pair of headphones, typically with a microphone attached

(1) **headset** with a microphone, (2) noise reduction **headset**
Professional game players pay the latest attention to the sound quality of their **headsets**.

telltale

adj. revealing or betraying information or evidence; serving as a sign or indicator of something

synonym: revealing, indicative, suggestive

(1) **telltale** evidence, (2) **telltale** heart

The **telltale** signs of a dishonest employee were missing files and constant delay.

originate

v. to come into existence in a particular place or situation; to start something in a specific place

synonym: begin, arise, create

(1) **originate** from the country, (2) **originate** a political movement

The flight **originates** in Vancouver.

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.

exploration

n. the activity of searching and finding out about something through a place

synonym: inquiry, quest, investigation

(1) future of space **exploration**, (2) an Arctic **exploration**

He called for a careful **exploration** of the consequences.

loudspeaker

n. an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas

synonym: speaker, loudhailer, megaphone

(1) wireless **loudspeaker**, (2) **loudspeaker** system

The teacher spoke through the **loudspeaker** so that every

student could hear the announcement.

horn

n. a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it

synonym : cornet, funnel, alarm

(1) a handle of **horn**, (2) **horn** of a vehicle

He enjoyed hearing the tootles of their **horns** with beer.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym : lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a **laboratory**.

extraordinary

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

synonym : exceptional, noteworthy, astonishing

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

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

precision

n. the quality or condition of being exact and accurate

synonym : accuracy, exactness, rigor

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

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

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

synonym : star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

fidelity

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

synonym : loyalty, devotion, allegiance

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

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

glitch

n. a minor problem or malfunction, especially in a computer program, system, or machine

synonym : malfunction, bug, fault

(1) computer **glitch**, (2) unanticipated **glitch**

The computer system had a minor **glitch** that caused a delay.

soundtrack

n. the recorded audio that accompanies a movie, television program, or video game

synonym : score, background music, accompaniment

(1) **soundtrack** album, (2) a motion picture with a **soundtrack**

The **soundtrack** to the movie was composed by a famous musician.

mysterious

adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

synonym : enigmatic, cryptic, puzzling

(1) **mysterious** object, (2) **mysterious** stranger

The **mysterious** disappearance of the ship remains unsolved.

disrupt

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

synonym : interrupt, disturb, break into

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

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

microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz;

an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym: oven, waveguide, radar range

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

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

simultaneously

adv. at the same time

synonym: concurrently, coincidentally, together

(1) **simultaneously** affected, (2) take several inputs

simultaneously

Two students answered the teacher's question

simultaneously.

assume

v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

synonym: guess, presume, suppose

(1) **assume** a lousy attitude to his boss, (2) **assume** an important role

The following example **assumes** that the capacity of each battery is the same.

pigeon

n. a stout-bodied bird with a small head, short legs, and a short, cooing call, typically found in cities and domesticated for food

(1) a racing **pigeon**, (2) **pigeon** on the roof

The **pigeon** perched on the windowsill, pecking at the bread crumbs left for it.

roost

n. a place where birds rest or sleep, typically on a branch or in a birdhouse or coop

synonym: perch, nest, roosting place

(1) wild **roost**, (2) bird **roost**

The chickens return to their **roost** at sunset every night.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym: record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

operational

adj. relating to a particular process or series of actions for achieving a result

synonym: functional, active, working

(1) introduce **operational** software, (2) build **operational** excellence

The machine should be **operational** by Friday afternoon.

norm

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

synonym: criterion, mean, standard

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

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

operate

v. to work in a particular way; to supervise something

synonym: work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

resume

v. to continue or begin anew after a pause or interruption

synonym: continue, reopen, restart

(1) **resume** an office, (2) **resume** a relationship

We **resumed** negotiations after a temporary break.

disappear

v. to cease to exist or be visible

synonym: fade, evaporate, vanish

(1) **disappear** without a trace, (2) **disappear** after a week

They watched the train **disappear** into the distance.

significance

n. the importance or value attached to something; the quality of being significant or noteworthy

synonym : importance, value, worth

(1) **significance** level, (2) mystical **significance**

The **significance** of his discovery cannot be overstated.

cosmic

adj. relating to the universe or cosmos; vast or limitless

synonym : astronomical, celestial, outer-space

(1) second **cosmic** velocity, (2) **cosmic** background radiation

Cosmic rays are high-energy particles that originate from outside the solar system.

radiation

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

synonym : dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

experimental

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

synonym : empirical, exploratory, observed

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

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

bang

v. to hit or cause to hit something in a way that makes a loud noise

synonym : crash, hit, smash

(1) **bang** his fist on a desk, (2) **bang** a phone down

My father tried to **bang** mathematics into my head since childhood.

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information

that is essential to understanding a situation or problem

synonym : ground, experience, backdrop

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

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

fuzzy

adj. having a soft and indistinct outline or covered with fine, soft, and hairlike fibers

synonym : hazy, blurry, indistinct

(1) **fuzzy** logic, (2) **fuzzy** memory

The picture was **fuzzy** because it was taken with an old camera.

Session 2: Spelling

- | | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. hi____ic accomplishment | <i>adj.</i> famous or significant in history, or potentially so |
| 2. in____ct directly with customers | <i>v.</i> to communicate or react with somebody |
| 3. fas____ard to the good part | <i>v.</i> to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording |
| 4. d__k drive | <i>n.</i> a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music |
| 5. sig____nce level | <i>n.</i> the importance or value attached to something; the quality of being significant or noteworthy |
| 6. the em____on of light | <i>n.</i> the act of production or sending out gas, heat, light, etc. |
| 7. permanently ne____l country | <i>adj.</i> not helping or assisting either side in a conflict, argument, etc. |
| 8. manually op____e a machine | <i>v.</i> to work in a particular way; to supervise something |
| 9. acc____lly coincide | <i>adv.</i> by chance or without planning |
| 10. high fi____ty music | <i>n.</i> faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something |
| 11. ext____ary ability | <i>adj.</i> exceptional, unexpected, very unusual; surpassing the ordinary or usual |

ANSWERS: 1. historic, 2. interact, 3. fast-forward, 4. disk, 5. significance, 6. emission, 7. neutral, 8. operate, 9. accidentally, 10. fidelity, 11. extraordinary

12. co____t fat into energy *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
13. b__g his fist on a desk *v.* to hit or cause to hit something in a way that makes a loud noise
14. as___e a lousy attitude to his boss *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
15. te_____m industry *n.* (a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet
16. a di_____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
17. act as us__r *n.* a person who shows people to their seats in a theater or church or who guides them through a building
18. or_____te a political movement *v.* to come into existence in a particular place or situation; to start something in a specific place
19. br_____st a radio ad *v.* to send out a program or some information on radio or television
20. digitization of an___g sounds *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

ANSWERS: 12. convert, 13. bang, 14. assume, 15. telecom, 16. distant, 17. usher, 18. originate, 19. broadcast, 20. analog

21. v__t majority *adj.* enormous in size, number, amount, or quantity
22. unanticipated gl___h *n.* a minor problem or malfunction, especially in a computer program, system, or machine
23. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
24. face inc_____gly complicated challenges *adv.* more and more
25. high la_____des *n.* the distance of a place north or south of the earth's equator, measured in degrees; freedom from normal restraints in conduct
26. cultural and ar_____ic activity *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
27. di_____t a well-ordered condition *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
28. the cr_____e of the thunder *v.* to make a succession of slight popping sounds, often due to the heating or drying of some materials, such as firewood, paper, plastic, or food; to snap, crack, or crunch; (noun) a series of sharp, popping sounds that are caused by the rapid expansion and contraction of a material, such as wood or paper, due to changes in temperature or humidity

ANSWERS: 21. vast, 22. glitch, 23. identify, 24. increasingly, 25. latitude, 26. artistic, 27. disrupt, 28. crackle

29. re___e an office *v.* to continue or begin anew after a pause or interruption
30. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
31. te_____le heart *adj.* revealing or betraying information or evidence; serving as a sign or indicator of something
32. a racing pi___n *n.* a stout-bodied bird with a small head, short legs, and a short, cooing call, typically found in cities and domesticated for food
33. op_____ze control for cooling *v.* to make the best or most effective use of something
34. mid-latitude ion_____re *n.* the region of the Earth's atmosphere that starts at about 50 kilometers above the surface and extends into outer space, containing a high concentration of ions and free electrons
35. high fr_____cy *n.* an ordered array of colors into which a light beam can be split
36. 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
37. a handle of h___n *n.* a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it

ANSWERS: 29. resume, 30. discovery, 31. telltale, 32. pigeon, 33. optimize, 34. ionosphere, 35. frequency, 36. antenna, 37. horn

38. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
39. em____y job seekers *v.* to give somebody a job and pay them for it; to make use of
40. wh_____e a tune *v.* to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound
41. me_____us harmony *adj.* pleasing or agreeable to the ear; characterized by a sweet or harmonious sound; musical or tuneful in nature
42. 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
43. aid re_____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something
44. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
45. di_____ar after a week *v.* to cease to exist or be visible
46. ast_____cal observation *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
47. em____y a new method *v.* to give somebody a job and pay them for it; to make use of

ANSWERS: 38. complexity, 39. employ, 40. whistle, 41. melodious, 42. investigate, 43. receiver, 44. engineer, 45. disappear, 46. astronomical, 47. employ

48. us__r theater *n.* a person who shows people to their seats in a theater or church or who guides them through a building
49. a stone wall su_____nds the palace *v.* to be all around something or somebody
50. tr_____rm an education system *v.* to change in outward structure or looks;
51. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
52. an ove_____ing victory *adj.* very great or intense; so powerful that you cannot fight or react against it
53. pr_____c language *adj.* lacking excitement, imagination, or originality; dull, ordinary, or commonplace; relating to or characteristic of prose rather than poetry
54. vi___l navigation *adj.* relating to seeing or sight
55. the ee__e whistle of dropping bombs *adj.* strange, or frightening; suggestive of the supernatural
56. su_____nd a town *v.* to be all around something or somebody
57. an advertising me___m *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
58. ca__e television *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

ANSWERS: 48. usher, 49. surround, 50. transform, 51. detect, 52. overwhelming, 53. prosaic, 54. visual, 55. eerie, 56. surround, 57. medium, 58. cable

59. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
60. ro_____p live *n.* the upper surface or cover of a building's roof, often used for recreational or other purposes
61. stuff of science fi_____n *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
62. they met acc_____lly *adv.* by chance or without planning
63. br_____st a concert *v.* to send out a program or some information on radio or television
64. fu__y logic *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
65. h__s warningly at the intruder *v.* to make a sound similar to a sharp exhalation or steam escaping under pressure, often expressing disapproval, anger, or fear; to produce a sound that is shrill and prolonged, often resembling the hissing of a snake; (noun) a sound or noise made by a person or animal, characterized by a sharp, prolonged "s" sound
66. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
67. Jo____n satellites *adj.* relating to Jupiter or its characteristics

ANSWERS: 59. invention, 60. rooftop, 61. fiction, 62. accidentally, 63. broadcast, 64. fuzzy, 65. hiss, 66. revolution, 67. Jovian

68. id____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
69. tr____it information *v.* to send or forward an electronic signal; to pass something from one person or thing to another
70. cultural n__m *n.* something that is regarded as usual, typical, or standard
71. At____ic breeze *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
72. coaxial ca__e *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
73. speak with pr____on *n.* the quality or condition of being exact and accurate
74. com____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
75. ascend to he____n *n.* (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty
76. have a fa____y clear view *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner

ANSWERS: 68. identify, 69. transmit, 70. norm, 71. Atlantic, 72. cable, 73. precision, 74. communicate, 75. heaven, 76. fairly

77. fu____st ideas *n.* a person who studies or predicts trends and developments, particularly in science, technology, or social systems, to anticipate what the future may hold
78. estimate pr____e costs *adj.* sharply exact or accurate or delimited
79. a mag____nt plan *adj.* extremely beautiful and impressive; grand or noble in thought or deed
80. ee__e silence *adj.* strange, or frightening; suggestive of the supernatural
81. beginning of the industrial rev____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
82. as____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else
83. fas____ard 10 seconds *v.* to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording
84. au____a watching *n.* a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic
85. give si____t consent *adj.* without any or little sound
86. si____t reading *adj.* without any or little sound
87. acc____al death *adj.* happening or existing by chance or unintentionally
88. pu____te a sentence *v.* to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically

ANSWERS: 77. futurist, 78. precise, 79. magnificent, 80. eerie, 81. revolution, 82. associate, 83. fast-forward, 84. aurora, 85. silent, 86. silent, 87. accidental, 88. punctuate

89. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
90. the struggle for ex_____ce *n.* the state or fact of someone or something existing
91. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
92. t__e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
93. ove_____ing majority *adj.* very great or intense; so powerful that you cannot fight or react against it
94. mys_____us stranger *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
95. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
96. a we__d dress *adj.* extraordinary, unexpected, or difficult to explain
97. co_____se the text *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
98. h__n of a vehicle *n.* a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it

ANSWERS: 89. disk, 90. existence, 91. laboratory, 92. tune, 93. overwhelming, 94. mysterious, 95. phenomenon, 96. weird, 97. condense, 98. horn

99. digital te_____ny *n.* the technology or operation of telecommunication; the transmission of sound and information over long distances using telephone or other telecommunication devices
100. racial or____n *n.* the first existence or beginning of something
101. sim_____sly affected *adv.* at the same time
102. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
103. ina_____tly omitted *adv.* unintentionally; accidentally; without purpose or deliberate intent
104. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
105. gr____m bread *n.* a type of flour made from whole wheat that has had the bran and germ removed and is often used to make crackers or cookies; a cracker made with this type of flour
106. the biggest tree in ex_____ce *n.* the state or fact of someone or something existing
107. audio he__z *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
108. future of space exp_____on *n.* the activity of searching and finding out about something through a place
109. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects

ANSWERS: 99. telephony, 100. origin, 101. simultaneously, 102. vision, 103. inadvertently, 104. laboratory, 105. graham, 106. existence, 107. hertz, 108. exploration, 109. telescope

110. the ha_____re department *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
111. en_____er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
112. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
113. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
114. ex_____e weather events *adj.* very great in amount or degree
115. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
116. he_____t with a microphone *n.* a pair of headphones, typically with a microphone attached
117. an_____a of insect *n.* an electrical device that sends or receives radio or television signals; (biology) one of one or more pairs of appendages used for sensing in insects
118. or____n of information *n.* the first existence or beginning of something
119. moves into a pi_____te *n.* a rapid spin of the body on the toes or the front part of the foot, especially performed by a ballet dancer

ANSWERS: 110. hardware, 111. encounter, 112. phenomenon, 113. background, 114. extreme, 115. emit, 116. headset, 117. antenna, 118. origin, 119. pirouette

120. elliptic ga___y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
121. personal an____te *n.* a short and amusing or interesting story about a real incident or person
122. d__l down the tension *v.* to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called
123. 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
124. a cl__p of trees *n.* a small group of bushes, trees, flowers, people, etc.
125. se____d habitat *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
126. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
127. int_____nce wave *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
128. te_____ny services *n.* the technology or operation of telecommunication; the transmission of sound and information over long distances using telephone or other telecommunication devices

ANSWERS: 120. galaxy, 121. anecdote, 122. dial, 123. astronomy, 124. clump, 125. seabed, 126. discovery, 127. interference, 128. telephony

129. At____ic salmon *adj.* relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
130. a hu___e cottage *adj.* having or showing a modest or low estimate of one's quality or importance
131. field of vi___l arts *adj.* relating to seeing or sight
132. upper ion____re *n.* the region of the Earth's atmosphere that starts at about 50 kilometers above the surface and extends into outer space, containing a high concentration of ions and free electrons
133. an ar____ic photograph *adj.* of or relating to art or artist; satisfying aesthetic standards and sensibilities
134. achieve the hi____ic feat *adj.* famous or significant in history, or potentially so
135. sp____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
136. 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
137. computer gl___h *n.* a minor problem or malfunction, especially in a computer program, system, or machine
138. st___c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing

ANSWERS: 129. Atlantic, 130. humble, 131. visual, 132. ionosphere, 133. artistic, 134. historic, 135. speculate, 136. planet, 137. glitch, 138. static

139. or_____te from the country *v.* to come into existence in a particular place or situation; to start something in a specific place
140. tr_____it the disease *v.* to send or forward an electronic signal; to pass something from one person or thing to another
141. solar ast_____er *n.* a physicist who studies astronomy
142. ce_____al navigation *adj.* relating to the sky or the heavens; of or like the sky or the heavens
143. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
144. mystical sig_____nce *n.* the importance or value attached to something; the quality of being significant or noteworthy
145. amateur ast_____er *n.* a physicist who studies astronomy
146. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
147. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
148. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
149. hu___e opinion *adj.* having or showing a modest or low estimate of one's quality or importance
150. st___c website *adj.* not moving or not capable of moving, not changing or not capable of changing
151. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

ANSWERS: 139. originate, 140. transmit, 141. astronomer, 142. celestial, 143. extraordinary, 144. significance, 145. astronomer, 146. technique, 147. speculate, 148. emit, 149. humble, 150. static, 151. galaxy

152. ne____l colors *adj.* not helping or assisting either side in a conflict, argument, etc.
153. pr__e for inside information *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
154. the ch__p of a cricket *n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
155. audio co__c *n.* a device or software algorithm that compresses or decompresses digital audio or video data, allowing for efficient transmission or storage
156. wild ro__t *n.* a place where birds rest or sleep, typically on a branch or in a birdhouse or coop
157. gamma-ray pu____r *n.* a highly magnetized, rotating neutron star that emits beams of electromagnetic radiation, which can be observed as regular pulses of light
158. alien spa____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
159. per____nt data *adj.* continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time
160. com____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 152. neutral, 153. probe, 154. chirp, 155. codec, 156. roost, 157. pulsar, 158. spacecraft, 159. persistent, 160. communicate

161. di_____ar without a trace *v.* to cease to exist or be visible
162. d__l up the volume *v.* to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called
163. pr_____e analyses *adj.* sharply exact or accurate or delimited
164. sou_____ck album *n.* the recorded audio that accompanies a movie, television program, or video game
165. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
166. a vast inventory of ha_____re *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
167. tr_____rm heat into power *v.* to change in outward structure or looks;
168. as___e an important role *v.* to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance
169. mi_____ve radiation *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 161. disappear, 162. dial, 163. precise, 164. soundtrack, 165. background, 166. hardware, 167. transform, 168. assume, 169. microwave

170. lou_____er system *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
171. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
172. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
173. ex_____e sports *adj.* very great in amount or degree
174. an Arctic exp_____on *n.* the activity of searching and finding out about something through a place
175. build ope_____al excellence *adj.* relating to a particular process or series of actions for achieving a result
176. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
177. ast_____cal numbers *adj.* relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
178. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
179. Jo____n planet *adj.* relating to Jupiter or its characteristics
180. fi_____ty guarantee deposit *n.* faithfulness to a person, cause, or thing; loyalty or devotion to a duty or obligation; accuracy or exactness in reproducing or representing something

ANSWERS: 170. loudspeaker, 171. spacecraft, 172. radiation, 173. extreme, 174. exploration, 175. operational, 176. complexity, 177. astronomical, 178. invention, 179. Jovian, 180. fidelity

181. sl__g shot v. to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something
182. op_____ze a process v. to make the best or most effective use of something
183. federal ci_____t courts n. (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
184. li_____ng air strike n. a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash
185. streaks of li_____ng n. a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash
186. tera-he__z radiation n. the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
187. an ele_____al storm adj. relating to electricity
188. pu_____te his talk v. to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically
189. re___e a relationship v. to continue or begin anew after a pause or interruption
190. co_____se water vapor v. to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

ANSWERS: 181. sling, 182. optimize, 183. circuit, 184. lightning, 185. lightning, 186. hertz, 187. electrical, 188. punctuate, 189. resume, 190. condense

191. a motion picture with a sou_____ck *n.* the recorded audio that accompanies a movie, television program, or video game
192. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
193. fu_____st architecture *n.* a person who studies or predicts trends and developments, particularly in science, technology, or social systems, to anticipate what the future may hold
194. electromagnetic ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
195. take several inputs sim_____sly *adv.* at the same time
196. in_____ct with one another *v.* to communicate or react with somebody
197. funny an_____te *n.* a short and amusing or interesting story about a real incident or person
198. v__t desert *adj.* enormous in size, number, amount, or quantity
199. a lunar pr__e *n.* a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something
200. degree in ele_____al engineering *adj.* relating to electricity

ANSWERS: 191. soundtrack, 192. universe, 193. futurist, 194. radiation, 195. simultaneously, 196. interact, 197. anecdote, 198. vast, 199. probe, 200. electrical

201. t_p keyboard with an index finger *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
202. fr_____cy band *n.* an ordered array of colors into which a light beam can be split
203. second co___c velocity *adj.* relating to the universe or cosmos; vast or limitless
204. gr___m flour *n.* a type of flour made from whole wheat that has had the bran and germ removed and is often used to make crackers or cookies; a cracker made with this type of flour
205. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
206. a pr_____on instrument *n.* the quality or condition of being exact and accurate
207. fa___y accurate *adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
208. un_____r a potential problem *v.* to remove the cover from something; to discover something previously unseen or hidden
209. me_____us voice *adj.* pleasing or agreeable to the ear; characterized by a sweet or harmonious sound; musical or tuneful in nature
210. sp_____ng machine *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

ANSWERS: 201. tap, 202. frequency, 203. cosmic, 204. graham, 205. telescope, 206. precision, 207. fairly, 208. uncover, 209. melodious, 210. spinning

211. a so__r eclipse *adj.* of, from, or relating to the sun
212. officious int_____nce *n.* the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
213. still vi__d in my memory *adj.* producing very clear, powerful, and detailed images in the mind
214. get r_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
215. the tra_____ion gears of a car *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
216. te_____le evidence *adj.* revealing or betraying information or evidence; serving as a sign or indicator of something
217. the state of being we__d *adj.* extraordinary, unexpected, or difficult to explain
218. r_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
219. b__g a phone down *v.* to hit or cause to hit something in a way that makes a loud noise
220. wh_____e for help *v.* to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

ANSWERS: 211. solar, 212. interference, 213. vivid, 214. rid, 215. transmission, 216. telltale, 217. weird, 218. rid, 219. bang, 220. whistle

221. pi___n on the roof *n.* a stout-bodied bird with a small head, short legs, and a short, cooing call, typically found in cities and domesticated for food
222. ex___c vacation *adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
223. ro____p deck *n.* the upper surface or cover of a building's roof, often used for recreational or other purposes
224. video co__c *n.* a device or software algorithm that compresses or decompresses digital audio or video data, allowing for efficient transmission or storage
225. cover acc_____al damage *adj.* happening or existing by chance or unintentionally
226. exp_____tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
227. cl__p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
228. 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
229. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
230. a GPS re_____er *n.* the part of a phone that you hold close to your ear and mouth; a person who receives something

ANSWERS: 221. pigeon, 222. exotic, 223. rooftop, 224. codec, 225. accidental, 226. experimental, 227. clump, 228. astronomy, 229. operate, 230. receiver

231. co____t base 10 to base 16 *v.* to have a talk with someone; (adjective) reversed in order, relation, or action
232. vi__d colors *adj.* producing very clear, powerful, and detailed images in the mind
233. exp_____tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
234. the so__r system *adj.* of, from, or relating to the sun
235. a prodigious vi___n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
236. ci____t breaker *n.* (in electrical engineering) an electrical device that provides a path for electrical current to flow; a journey or route around a particular place or area
237. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
238. ina_____tly deleted *adv.* unintentionally; accidentally; without purpose or deliberate intent
239. tra_____ion speed *n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
240. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
241. di____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 231. convert, 232. vivid, 233. experimental, 234. solar, 235. vision, 236. circuit, 237. technique, 238. inadvertently, 239. transmission, 240. emission, 241. distant

242. a mag_____nt mountain *adj.* extremely beautiful and impressive; grand or noble in thought or deed
243. pu___r magnetosphere *n.* a highly magnetized, rotating neutron star that emits beams of electromagnetic radiation, which can be observed as regular pulses of light
244. introduce ope_____al software *adj.* relating to a particular process or series of actions for achieving a result
245. me___m color *adj.* of a size, amount, or level that is average or intermediate; (noun) a means or instrumentality for storing or communicating information
246. non-fi_____n bestseller *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
247. the t__e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
248. sl__g an arrow *v.* to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something
249. expansion of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
250. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 242. magnificent, 243. pulsar, 244. operational, 245. medium, 246. fiction, 247. tune, 248. sling, 249. universe, 250. detect

251. get ins_____on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
252. cr_____e on the gravel road *v.* to make a succession of slight popping sounds, often due to the heating or drying of some materials, such as firewood, paper, plastic, or food; to snap, crack, or crunch; (noun) a series of sharp, popping sounds that are caused by the rapid expansion and contraction of a material, such as wood or paper, due to changes in temperature or humidity
253. la_____de of choice *n.* the distance of a place north or south of the earth's equator, measured in degrees; freedom from normal restraints in conduct
254. mys_____us object *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
255. wireless lou_____er *n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
256. bird ro__t *n.* a place where birds rest or sleep, typically on a branch or in a birdhouse or coop
257. sp_____ng wheel *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

ANSWERS: 251. inspiration, 252. crackle, 253. latitude, 254. mysterious, 255. loudspeaker, 256. roost, 257. spinning

258. ce_____al bliss *adj.* relating to the sky or the heavens; of or like the sky or the heavens
259. source of ins_____on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
260. noise reduction he_____t *n.* a pair of headphones, typically with a microphone attached
261. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
262. perform a pi_____te *n.* a rapid spin of the body on the toes or the front part of the foot, especially performed by a ballet dancer
263. di_____t sleep *v.* to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
264. ex___c species *adj.* originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
265. an an___g watch *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
266. n__m of action *n.* something that is regarded as usual, typical, or standard
267. he___n on earth *n.* (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty

ANSWERS: 258. celestial, 259. inspiration, 260. headset, 261. associate, 262. pirouette, 263. disrupt, 264. exotic, 265. analog, 266. norm, 267. heaven

268. baby with se_____ve skin *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
269. the h__s of a snake *v.* to make a sound similar to a sharp exhalation or steam escaping under pressure, often expressing disapproval, anger, or fear; to produce a sound that is shrill and prolonged, often resembling the hissing of a snake; (noun) a sound or noise made by a person or animal, characterized by a sharp, prolonged "s" sound
270. pr_____c approach *adj.* lacking excitement, imagination, or originality; dull, ordinary, or commonplace; relating to or characteristic of prose rather than poetry
271. co___c background radiation *adj.* relating to the universe or cosmos; vast or limitless
272. se___d mining *n.* the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
273. the ch__p of a bird *n.* a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers
274. per_____nt cough *adj.* continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

ANSWERS: 268. sensitive, 269. hiss, 270. prosaic, 271. cosmic, 272. seabed, 273. chirp, 274. persistent

275. mi_____ve popcorn *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
276. polar au___a *n.* a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic
277. en_____er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
278. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
279. fu__y memory *adj.* having a soft and indistinct outline or covered with fine, soft, and hairlike fibers
280. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
281. inc_____gly become common *adv.* more and more
282. t_p a new market *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.

ANSWERS: 275. microwave, 276. aurora, 277. encounter, 278. investigate, 279. fuzzy, 280. engineer, 281. increasingly, 282. tap

283. te_____m service providers *n.* (a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet
284. se_____ve documents *adj.* able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
285. 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
286. un_____r the truth *v.* to remove the cover from something; to discover something previously unseen or hidden

ANSWERS: 283. telecom, 284. sensitive, 285. planet, 286. uncover

Session 3: Fill in the Blanks

1. Scientists use _____ monitoring stations to keep track of solar activities and their impact on our planet.
 - n.* the region of the Earth's atmosphere that starts at about 50 kilometers above the surface and extends into outer space, containing a high concentration of ions and free electrons

2. The human-crewed _____ successfully landed on the moon, fulfilling its mission.
 - n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments

3. He continued his investigation and soon _____ another crime.
 - v.* to remove the cover from something; to discover something previously unseen or hidden

4. A legislative speaker should always be _____.
 - adj.* not helping or assisting either side in a conflict, argument, etc.

5. He was _____ killed by friendly fire.
 - adv.* by chance or without planning

6. He _____ that this investment would lead to success.
 - v.* to form a theory or conjecture or guess about a subject without solid evidence

7. The _____ of his discovery cannot be overstated.
 - n.* the importance or value attached to something; the quality of being significant or noteworthy

ANSWERS: 1. ionosphere, 2. spacecraft, 3. uncovered, 4. neutral, 5. accidentally, 6. speculated, 7. significance

8. The _____ hurricane season runs from June to November each year.
adj. relating to or located near the Atlantic Ocean, which is the second-largest ocean on Earth, located between the continents of North and South America to the west and Europe and Africa to the east
9. The mouse and keyboard are essential _____ for operating a PC.
n. durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
10. They watched the train _____ into the distance.
v. to cease to exist or be visible
11. She made a _____ impression.
adj. producing very clear, powerful, and detailed images in the mind
12. The security camera has _____ four intruders.
v. to find or recognize something, especially something difficult to see, hear, etc.
13. We _____ negotiations after a temporary break.
v. to continue or begin anew after a pause or interruption
14. The cost of the new equipment was _____ and beyond the company's budget.
adj. relating to astronomy or the study of celestial bodies and phenomena; very large or immense in scale or magnitude
15. I want to _____ my sadness into strength.
v. to have a talk with someone; (adjective) reversed in order, relation, or action

ANSWERS: 8. Atlantic, 9. hardware, 10. disappear, 11. vivid, 12. detected, 13. resumed, 14. astronomical, 15. convert

16. I heard the _____ of his boots in the hallway.
n. a small group of bushes, trees, flowers, people, etc.
17. The video file could not be played because the necessary _____ was missing.
n. a device or software algorithm that compresses or decompresses digital audio or video data, allowing for efficient transmission or storage
18. He was an atheist and therefore did not believe in the _____ of heaven or hell.
n. the state or fact of someone or something existing
19. The city is located at a _____ of 40 degrees north.
n. the distance of a place north or south of the earth's equator, measured in degrees; freedom from normal restraints in conduct
20. Necessity is the mother of _____.
n. the creation of a new device or process resulting from study and experimentation; the act of inventing
21. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;
22. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
23. She took a _____ class at the gym to improve her cardiovascular fitness.
n. the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn

ANSWERS: 16. clump, 17. codec, 18. existence, 19. latitude, 20. invention, 21. revolution, 22. complexity, 23. spinning

24. The product is still in the _____ stage.

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

25. The following example _____ that the capacity of each battery is the same.

v. to think or accept something to be true without having proof of it; to take or begin to have power; to begin to exhibit a specific quality or appearance

26. An intelligent battery has a voltage monitoring _____.

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

27. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

28. Mercury thermometers are a type of _____ sensor.

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

29. Delivery companies often require the _____ signature to certify the completion of package delivery.

n. the part of a phone that you hold close to your ear and mouth; a person who receives something

30. The band played a beautiful _____ on their instruments.

n. a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

31. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

ANSWERS: 24. experimental, 25. assumes, 26. circuit, 27. visual, 28. analog, 29. receiver's, 30. tune, 31. extreme

32. I'm prepared to _____ challenges throughout this adventure.
v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
33. Truth is stranger than _____.
n. the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
34. The teacher is very _____ to children's feelings.
adj. able to notice slight changes, signals, or influences; able to feel or perceive other's feelings; susceptible to the things people say or do
35. The computer system had a minor _____ that caused a delay.
n. a minor problem or malfunction, especially in a computer program, system, or machine
36. Most of the programs are _____ in this area.
v. to send out a program or some information on radio or television
37. The street was entirely silent and a bit _____.
adj. strange, or frightening; suggestive of the supernatural
38. I love trying _____ foods from different cultures.
adj. originating from or characteristic of a foreign country or culture; strikingly unusual, uncommon, or intriguing
39. The Chinese people have accomplished several _____ feats.
adj. famous or significant in history, or potentially so

ANSWERS: 32. encounter, 33. fiction, 34. sensitive, 35. glitch, 36. broadcast, 37. eerie, 38. exotic, 39. historic

40. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

41. The _____ bodies in the night sky were beautiful to behold.

adj. relating to the sky or the heavens; of or like the sky or the heavens

42. When making arrests, police officers frequently _____ excessive force.

v. to give somebody a job and pay them for it; to make use of

43. 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

44. Strikes had also _____ the preceding weeks.

v. to insert punctuation marks (= comma, period, colon, etc.) in the text; to interrupt periodically

45. The _____ signs of a dishonest employee were missing files and constant delay.

adj. revealing or betraying information or evidence; serving as a sign or indicator of something

46. The cat arched its back and _____ at the approaching dog.

v. to make a sound similar to a sharp exhalation or steam escaping under pressure, often expressing disapproval, anger, or fear; to produce a sound that is shrill and prolonged, often resembling the hissing of a snake; (noun) a sound or noise made by a person or animal, characterized by a sharp, prolonged "s" sound

47. He has shown signs of uneasiness and _____ worry.

adj. very great or intense; so powerful that you cannot fight or react against it

ANSWERS: 40. surround, 41. celestial, 42. employ, 43. transmit, 44. punctuated, 45. telltale, 46. hissed, 47. overwhelming

48. The _____ industry constantly innovates to keep up with new technologies and changing customer needs.
- n.* the technology or operation of telecommunication; the transmission of sound and information over long distances using telephone or other telecommunication devices
49. To expand the company, we must ____ new human resources.
- v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
50. Dolphins use sound to _____ with each other.
- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
51. The children were playing by _____ stones at the monument.
- v.* to throw or drop something somewhere carelessly; to hang loosely or freely; (noun) a length of rope, fabric, or chain used to support or lift something
52. My father's death _____ my life completely.
- v.* to change in outward structure or looks;
53. The _____ is about 13.8 billion years old.
- n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
54. The employee decided to _____ on the company's illegal activities.
- v.* to make a high-pitched sound by forcing breath through a small opening, usually with the lips or fingers; (noun) a piece of equipment that forces air or steam against an edge or into a cavity and so produces a loud shrill sound

ANSWERS: 48. telephony, 49. tap, 50. communicate, 51. slinging, 52. transformed, 53. universe, 54. whistle-blow

55. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

56. I'm so sorry to _____ you when you're pretty busy.

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

57. The picture was _____ because it was taken with an old camera.

adj. having a soft and indistinct outline or covered with fine, soft, and hairlike fibers

58. NASA sent a _____ to study the atmosphere of Jupiter.

n. a tool used for testing or examining, especially for medical or scientific purposes, or an exploratory mission to a planet or other celestial body; (verb) to investigate, examine, or search into something

59. The Milky Way _____ has numerous water-bearing planets.

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

60. The human eye is _____ in recognizing objects.

n. a flash, or several flashes, of light that accompanies an electric discharge in the atmosphere, or something resembling such a flash

61. The company's hiring criteria emphasize personality, not a person's _____.

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

62. Jockey's superior _____ brought him victory.

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

ANSWERS: 55. precise, 56. disrupt, 57. fuzzy, 58. probe, 59. galaxy, 60. lightning-fast, 61. background, 62. technique

63. The _____ size shirt fits him perfectly.

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

64. He enjoyed hearing the tootles of their _____ with beer.

n. a hard, pointed, often curved part that grows on the top of the heads of some animals, such as sheep and cows; a noisemaker or musical instrument that makes a loud noise when you blow through it

65. The essence of economics is to _____ the allocation of limited resources.

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

66. Promising entrepreneurs often have a high _____ sensibility.

adj. of or relating to art or artist; satisfying aesthetic standards and sensibilities

67. The book's _____ writing style left me uninterested despite the dramatic premise.

adj. lacking excitement, imagination, or originality; dull, ordinary, or commonplace; relating to or characteristic of prose rather than poetry

68. This system uses submarine _____ to exchange information between continents.

n. a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

69. He found _____ in the works of his favorite authors.

n. something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

70. The computer's hard _____ was full, so she had to delete some files.

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

ANSWERS: 63. medium, 64. horns, 65. optimize, 66. artistic, 67. prosaic, 68. cables, 69. inspiration, 70. disk

71. The systems we have developed has accepted as industry _____.
- n.* something that is regarded as usual, typical, or standard
72. 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
73. This machine is too difficult to _____ for me.
- v.* to work in a particular way; to supervise something
74. I heated my leftover food in the _____ oven, which tasted just as good as freshly cooked.
- n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
75. My computer has been acting _____ recently.
- adj.* extraordinary, unexpected, or difficult to explain
76. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
77. The machine should be _____ by Friday afternoon.
- adj.* relating to a particular process or series of actions for achieving a result
78. The _____ perched on the windowsill, pecking at the bread crumbs left for it.
- n.* a stout-bodied bird with a small head, short legs, and a short, cooing call, typically found in cities and domesticated for food

ANSWERS: 71. norms, 72. antenna, 73. operate, 74. microwave, 75. weird, 76. engineer, 77. operational, 78. pigeon

79. The flight _____ in Vancouver.

- v.* to come into existence in a particular place or situation; to start something in a specific place

80. They held the dinner party on the _____ terrace, enjoying the beautiful view of the city.

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

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

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

82. She turned a triple _____ on the ice.

- n.* a rapid spin of the body on the toes or the front part of the foot, especially performed by a ballet dancer

83. I _____ left my phone at home this morning and felt lost.

- adv.* unintentionally; accidentally; without purpose or deliberate intent

84. The couple promised each other _____ in their marriage vows.

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

85. The wind chimes hanging in the garden made a _____ sound when the wind blew, adding charm to the atmosphere.

- adj.* pleasing or agreeable to the ear; characterized by a sweet or harmonious sound; musical or tuneful in nature

86. Our company found it _____ difficult to keep up with the competition.

- adv.* more and more

ANSWERS: 79. originates, 80. rooftop, 81. emits, 82. pirouette, 83. inadvertently, 84. fidelity, 85. melodious, 86. increasingly

87. He tried every possible treatment, including chemotherapy and _____ therapy.
- n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
88. The chickens return to their _____ at sunset every night.
- n.* a place where birds rest or sleep, typically on a branch or in a birdhouse or coop
89. This question has fascinated solar _____ for decades.
- n.* a physicist who studies astronomy
90. She entertained the guests with _____ about her travels and experiences.
- n.* a short and amusing or interesting story about a real incident or person
91. The _____ scene of the glacier is awe-inspiring.
- adj.* extremely beautiful and impressive; grand or noble in thought or deed
92. Education is the _____ of civilization.
- n.* the act or process of sending something from one person or place to another; the process of broadcasting over the airwaves, as in radio or television
93. I enjoyed my camping trip with friends, toasting marshmallows over a glowing _____ cracker.
- n.* a type of flour made from whole wheat that has had the bran and germ removed and is often used to make crackers or cookies; a cracker made with this type of flour
94. Driving is difficult for me because of my poor _____.
- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

ANSWERS: 87. radiation, 88. roost, 89. astronomers, 90. anecdotes, 91. magnificent, 92. transmission, 93. graham, 94. vision

95. The teacher spoke through the _____ so that every student could hear the announcement.
- n.* an electronic device that amplifies sound, typically used to address a large audience or to play music or other audio content in public areas
96. Northern and southern hemispheres alike experience the _____.
- n.* a natural appearance of colored light in Earth's sky that is usually seen in high-latitude regions, especially around the Arctic and Antarctic
97. The _____ moon Europa is believed to have an ocean beneath its icy surface.
- adj.* relating to Jupiter or its characteristics
98. The _____ image on the screen took a lot of work to make out.
- adj.* not moving or not capable of moving, not changing or not capable of changing
99. Two students answered the teacher's question _____.
- adv.* at the same time
100. There are five distinct _____ at five unique wavelengths.
- n.* the act of production or sending out gas, heat, light, etc.
101. The uniformed _____ showed the guests to their seats.
- n.* a person who shows people to their seats in a theater or church or who guides them through a building
102. _____ rays are high-energy particles that originate from outside the solar system.
- adj.* relating to the universe or cosmos; vast or limitless

ANSWERS: 95. loudspeaker, 96. aurora, 97. Jovian, 98. static, 99. simultaneously, 100. emissions, 101. usher, 102. Cosmic

103. The dense coral reefs on the _____ provide a home for various marine life.
n. the bottom of a sea or ocean; the surface of the sea's bed, which can be rocky, sandy, muddy, or covered with coral or other organisms
104. The _____ to the movie was composed by a famous musician.
n. the recorded audio that accompanies a movie, television program, or video game
105. The majority of consumers _____ this brand with quality.
v. to mentally connect someone or something with someone or something else
106. The politician remained _____ despite intense media scrutiny.
adj. without any or little sound
107. This operation requires both patience and _____.
n. the quality or condition of being exact and accurate
108. Unfortunately, the radio _____ made it difficult to hear the broadcast.
n. the act or process of getting involved in and trying to influence a specific situation; the state of being affected and influenced with
109. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
110. There are various hypotheses concerning the _____ of life.
n. the first existence or beginning of something
111. The nobler, the more _____.
adj. having or showing a modest or low estimate of one's quality or importance

ANSWERS: 103. seabed, 104. soundtrack, 105. associate, 106. silent, 107. precision, 108. interference, 109. vast, 110. origin, 111. humble

112. The _____ company is planning to launch a new smartphone next month.
n. (a shortened form of telecommunications) the communication of information over long distances through various means such as phones, television, radio, and the internet
113. Actuators convert _____ pulses into motion.
adj. relating to electricity
114. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
115. He _____ the phone number and waited for an answer.
v. to adjust or set the controls of a machine or device by turning a controller called dial; (noun) a disc on a telephone that is rotated a fixed distance for each number called
116. 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
117. The astronomers detected a _____ in the center of the galaxy.
n. a highly magnetized, rotating neutron star that emits beams of electromagnetic radiation, which can be observed as regular pulses of light
118. The sound of the _____ woke me up early in the morning.
n. a short, sharp sound that is made by birds or insects or by electronic devices such as alarms or beepers

ANSWERS: 112. telecom, 113. electrical, 114. discovery, 115. dialed, 116. astronomy, 117. pulsar, 118. chirp

119. He narrated the _____ story of his adventure.

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

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

adj. of, from, or relating to the sun

121. The _____ disappearance of the ship remains unsolved.

adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

122. The oscillator hunts for the correct _____.

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

123. This system prevents _____ deletion of data.

adj. happening or existing by chance or unintentionally

124. My father tried to _____ mathematics into my head since childhood.

v. to hit or cause to hit something in a way that makes a loud noise

125. Professional game players pay the latest attention to the sound quality of their _____.

n. a pair of headphones, typically with a microphone attached

126. He should _____ more with his colleagues.

v. to communicate or react with somebody

127. The human ear can detect sounds with frequencies ranging from 20 to 20,000 _____.

n. the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

ANSWERS: 119. extraordinary, 120. Solar, 121. mysterious, 122. frequency, 123. accidental, 124. bang, 125. headsets, 126. interact, 127. hertz

128. This facility has the largest astronomical _____ in the country.
- n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
129. 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
130. The firewood _____ and popped into the fireplace, sending sparks up the chimney.
- v.* to make a succession of slight popping sounds, often due to the heating or drying of some materials, such as firewood, paper, plastic, or food; to snap, crack, or crunch; (noun) a series of sharp, popping sounds that are caused by the rapid expansion and contraction of a material, such as wood or paper, due to changes in temperature or humidity
131. The radical _____ predicted that virtual reality would become a standard in everyday life.
- n.* a person who studies or predicts trends and developments, particularly in science, technology, or social systems, to anticipate what the future may hold
132. He deals _____ with his employees.
- adv.* to a certain extent or degree; without favoring one party in an evenhanded manner
133. He called for a careful _____ of the consequences.
- n.* the activity of searching and finding out about something through a place
134. We must ____ ourselves of pollution.
- v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person

ANSWERS: 128. telescope, 129. investigated, 130. crackled, 131. futurist, 132. fairly, 133. exploration, 134. rid

135. I like to _____ through commercials when watching TV shows.

- v.* to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording

136. I need to _____ all of my notes into a manageable summary for my presentation.

- v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

137. A rainbow is a natural _____.

- n.* something that exists and can be perceptible, especially one that is not fully understood

138. I will introduce you to how to _____ the leading causes of the malfunction.

- v.* to recognize someone or something and say or prove who or what they are

139. The sun set over the crest of _____ hills.

- adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

140. He felt like _____ when he tasted the delicious chocolate cake.

- n.* (of various religious and mythological traditions) a place or state of existence considered to be the abode of the divine, the afterlife, or a higher realm of being; a state of great happiness, contentment, or beauty

141. 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

142. Despite the setbacks, he remained _____ in his pursuit of his dreams.

- adj.* continuing firmly or obstinately in the course of action despite difficulty or opposition; lasting or enduring without fading or being lost over time

ANSWERS: 135. fast-forward, 136. condense, 137. phenomenon, 138. identify, 139. distant, 140. heaven, 141. planet, 142. persistent

143. Animal protection groups call for an end to animal testing in a _____.

n. a workplace for doing scientific research or teaching science; a lab

ANSWERS: 143. laboratory