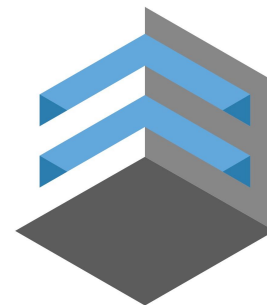


Englist.me



Vocabulary Builder Reference from...

Melodie Yashar: How to build for human life on Mars |
TED Talk

[https://www.ted.com/talks/melodie_yashar_how_to_b
uild_for_human_life_on_mars](https://www.ted.com/talks/melodie_yashar_how_to_build_for_human_life_on_mars)

All Words

IMPORTANT

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Session 1: Word List

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.

mar

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

synonym: damage, deface, disfigure

(1) **mar** a proper relationship, (2) **mar** the reputation

The scratches on the car **marred** its otherwise perfect appearance.

durable

adj. capable of lasting and being used for a long time without being damaged or destroyed

synonym: enduring, stable, long-lasting

(1) **durable** peace, (2) **durable** materials

Our company's products are made of highly **durable** materials.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed

of many parts

synonym: construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

shield

n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

synonym: guard, protection, safeguard

(1) a heat **shield**, (2) a **shield** for protecting against a bullet
Lead is an effective **shield** against X-rays, gamma rays, and other harmful radiation.

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.

galactic

adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope

synonym: cosmic, celestial, enormous

(1) **galactic** scale, (2) a **galactic** system

The Milky Way is a **galactic** collection of billions of stars and planets.

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.

ray

n. a narrow line of light, heat, or another form of energy

synonym: beam, light, glimmer

(1) opaque to X- **rays**, (2) effect of cosmic **rays**

Gamma **rays** penetrate body tissues and cause cell damage.

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.

temperature

n. the degree of hotness or coldness of a thing or place

synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric

temperature

Cities around the world set records for highest **temperatures** this summer.

prohibitively

adv. in a manner that discourages or prevents something from happening or being done, especially by making it too expensive

synonym: excessively

(1) **prohibitively** long time, (2) **prohibitively** difficult

The cost of the project was **prohibitively** high for the company to consider.

launch

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

synonym: start, initiate, begin

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

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

construct

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

synonym: build, assemble, create

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

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

pioneering

adj. involving new ideas or methods; being the first of their kind; leading the way in a particular field

synonym: innovative, groundbreaking, trailblazing

(1) **pioneering** research, (2) **pioneering** spirit

The **pioneering** scientist developed a breakthrough technology that revolutionized the industry.

progressive

adj. relating to or supporting development or advancement, especially social or political one

synonym: advanced, forward-thinking, modern

(1) **progressive** taxation, (2) **progressive** development

The **progressive** approach to education emphasizes hands-on learning and student-centered classrooms.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

expand

v. to increase or to make something greater in size, number, or importance

synonym: extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

permanent

adj. lasting for a long time without essential change

synonym: lasting, ceaseless, endless

(1) literature of **permanent** value, (2) **permanent** life

insurance

She is searching for a **permanent** residence.

outpost

n. a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.

synonym: frontier, settlement

(1) **outpost** area, (2) military **outpost**

With the war's end, they have begun a gradual retreat from their **outposts**.

thrive

v. to grow vigorously; to make steady progress

synonym: bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure

Without investment, a business cannot **thrive**.

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym: creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord

The building **architect** tried to build the house above the tree.

conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

synonym: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

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.

optimal

adj. the best; most likely to be successful or advantageous

synonym: optimum, desirable, favorable

(1) achieve **optimal** health, (2) **optimal** for intellectual growth

Wild animals need to go forward with the **optimal** action to survive.

crew

n. a group of people who work together, especially on a ship or airplane

synonym: team, group, squad

(1) the film **crew**, (2) the **crew** of a fishing boat

The ship's **crew** worked hard to repair the damaged sails before the next storm hit.

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.

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.

delay

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

synonym: block, adjourn, detain

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

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

rely

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

synonym: depend, count, lean

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

telerobotics

n. a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology

synonym: remote control, teleoperation, robot control

(1) **telerobotics** system, (2) **telerobotics** engineer
The military uses **telerobotics** for surveillance, reconnaissance, and bomb disposal operations.

supervise

v. to watch over and direct someone or something, especially in a position of responsibility

synonym: oversee, manage, control

(1) **supervise** entrance test takers, (2) **supervise** team activity
She was asked to **supervise** the construction project.

explore

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

synonym: analyze, delve into, examine

(1) **explore** the world, (2) **explore** our options
The management must **explore** strategies to increase office security.

lever

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym: lifter, crowbar, bar

(1) a gear change **lever**, (2) **lever** for reform
This initiative will be a **lever** for increasing company sales.

autonomous

adj. capable of governing or controlling its affairs

synonym: independent, self-governing, self-reliant

(1) development of **autonomous** vehicles, (2) an

autonomous judiciary

Five of the six provinces will become **autonomous** regions under the new federal system of government.

shelter

n. a structure built to protect from poor weather, danger, or attack:

synonym: refuge, hideout, lair

(1) rainproof **shelter**, (2) anti-air raid **shelter**

They need food and **shelter**.

situ

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

synonym: situational, contextual, circumstantial

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

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

regolith

n. the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids

synonym: moon dust, soil layer, surface layer

(1) **regolith** samples, (2) layer of **regolith**

The astronauts are studying the **regolith** on the Moon's surface.

dirt

n. soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock

synonym: filth, grime, muck

(1) **dirt** road, (2) **dirt** track

The garden was filled with **dirt** and needed to be tilled before planting.

indigenous

adj. someone or something that is native to or occurring naturally in a particular place

synonym: domestic, endemic, primitive

(1) **indigenous** crop, (2) **indigenous** peoples
The **indigenous** plants need to be pollinated by local insects.

combine

v. to join or merge to form a single thing or group

synonym: coalesce, cohere, blend

(1) **combine** chemically with another substance,
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

additive

n. a substance added to something in small amounts,
especially food, to improve or preserve it

synonym: preservative, supplement

(1) food **additive**, (2) deleterious chemical **additives**

The gasoline **additive** had leaked from the container.

bind

v. to tie or fasten someone or something tightly with rope,
string, etc. so that they cannot move or are held together
strongly

synonym: tie, stick to, adhere

(1) **bind** the man's hands, (2) **bind** old letters into a bundle

The company's rules **bind** the employee's working hours.

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.

introductory

adj. intended as an introduction or preliminary; serving as a
base or starting point

synonym: beginning, preliminary, initial

(1) **introductory** biology text, (2) product **introductory** sale

The **introductory** class was designed to give students a
basic understanding of the subject.

airtight

adj. tightly sealed or enclosed, with no spaces through which
air or other substances can pass; completely secure or

reliable

synonym : hermetic, watertight

(1) **airtight** container, (2) **airtight** seal

The container was **airtight**, keeping the food fresh for longer.

withstand

v. to resist the effect or impact of something

synonym : endure, bear, resist

(1) **withstand** pressure, (2) **withstand** temptation

The new phone is waterproof and can **withstand** being dropped in water.

internal

adj. of or relating to the inside of something

synonym : interior, inner, domestic

(1) **internal** organs, (2) the **internal** economy

The prime minister canceled visits to other countries to resolve **internal** disputes.

breath

n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs

synonym : air, puff, whiff

(1) hold your **breath**, (2) **breath** of wind

He bated his **breath** when talking about this affair.

temperate

adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

synonym : moderate, mild, genial

(1) **temperate** grassland, (2) **temperate** behavior

The **temperate** climate of the region made it an ideal vacation spot.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

deploy

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

synonym: set up, expand, launch

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

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

perceive

v. to become aware or conscious of something through the senses

synonym: sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

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.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

choreograph

v. to compose a sequence of dance steps, often to music

(1) **choreograph** a stage performance, (2) exquisitely **choreographed**

He had **choreographed** the dance in this play himself.

prospect

n. the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals

synonym: hope, possibility, expectation

(1) **prospect** for gold, (2) job **prospects**

The **prospect** of starting a new business can be both exciting and daunting.

survey

n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions

synonym: study, examination, poll

(1) a comprehensive **survey**, (2) recent **survey**

That **survey** shows that people are accepting the tax increase to some extent.

maneuver

n. a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

synonym: gimmick, trick, action

(1) political **maneuvers**, (2) made a great **maneuver**

In this class, we learn the basic **maneuver** of the plane.

bot

n. a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users

synonym: robot, droid, android

(1) spam **bot**, (2) **bot** detection

The translation **bot** helped me translate a website from

another country.

resemble

v. to look like or be similar to someone or something

synonym: look like, be similar to

(1) **resemble** each other, (2) **resemble** her mother

The brothers **resemble** each other in the hobby.

excavate

v. to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something

synonym: dig, unearth, extract

(1) **excavate** a deep hole, (2) **excavate** soil

The archaeologists **excavated** the ruins of an ancient city buried under the desert sands.

manufacture

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

synonym: create, fabricate, assemble

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

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

progression

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

synonym: advancement, development, evolution

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

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

prebuilt

adj. constructed or assembled in advance of its use or installation

synonym: prefabricated, preconstructed, ready-made

(1) **prebuilt** homes, (2) **prebuilt** packages

The **prebuilt** computer was convenient for those who didn't want to build one from scratch.

integrate

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

synonym: mix, merge, combine

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

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

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.

airlock

n. a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other

(1) an **airlock** chamber, (2) **airlock** module

The mechanic has just inspected the jammed **airlock**.

equip

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

synonym: prepare, furnish, provide

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

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

insert

v. to put something inside something else

synonym: introduce, add, embed

(1) **insert** coin, (2) **insert** a graphic

She **inserted** a new chapter into her manuscript.

sealed

adj. closed or secured with

synonym: closed, impenetrable

(1) **sealed** orders, (2) **sealed** jar

We packed and shipped the product in **sealed** containers.

survive

v. to live or exist despite a dangerous event or period

synonym: endure, persist, stay

(1) **survive** a blizzard, (2) **survive** a plane crash

These birds can only **survive** in temperate climates.

posit

v. to suggest or accept something as fact or as a basis for argument or consideration

synonym: assert, declare, assume

(1) **posit** the existence of life after death, (2) **posit** the premise

We should **posit** several hypotheses to discuss the matter.

contribute

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

synonym: donate, devote, commit

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

(2) **contribute** to society

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

well-being

n. the state of being happy and healthy and prosperous

synonym: health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**

We are responsible for the care and **well-being** of all our employees.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym: spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

tight

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

synonym: closed, secured, cramped

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

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

mechanical

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

synonym: machinelike, automated, automatic

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

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

interior

n. the inside or inner part of something; the space within the walls of a building

synonym: inner, inside, internal

(1) **interior** decoration, (2) plenty of **interior** space

The painter focused on the moody **interiors** of abandoned buildings in his work.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

duration

n. the length of time something lasts or continues

synonym: period, span, course

(1) the **duration** of insurance, (2) short **duration**

The military incarcerated him for the **duration** of the war.

incorporate

v. to include something as a part of a larger entity

synonym: contain, integrate, amalgamate

(1) **incorporate** the current trends, (2) **incorporate**

technology into daily life

We will attempt to **incorporate** some of your suggestions into our future strategy.

practical

adj. of or connected with actual use or real situation rather than with theory and ideas

synonym: applicable, functional, realistic

(1) **practical** English, (2) gain **practical** experience

Her concept is highly **practical** and helpful.

architectural

adj. of or relating to the design and construction of buildings and other structures and the features and style of such structures

synonym: structural, building, constructive

(1) study **architectural** engineering, (2) beautiful **architectural** landmarks

The **architectural** style of the building was a mix of modern and traditional.

greenery

n. plant life, especially lush and flourishing vegetation

synonym: vegetation, plants, foliage

(1) the **greenery** in a courtyard, (2) **greenery** environment

The city plans to add more **greenery** in public spaces to improve air quality and aesthetic.

feat

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

synonym: achievement, accomplishment, exploit

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

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

aboard

adv. on or onto a ship, aircraft, or other vehicles; present or participating in a particular activity or endeavor

synonym: on board, on, in

(1) **aboard** the ship, (2) remain **aboard**

The captain announced that all passengers should be **aboard** the ferry before it departed for the island.

commit

v. to do something illegal or wrong

synonym: engage, carry out, execute

(1) **commit** suicide, (2) **commit** mistakes

The military has **committed** an abuse of human rights.

psychology

n. the scientific study of mind and behavior

(1) **psychology** experiment, (2) **psychology** of crowd

She had a master's degree in **psychology**.

inflate

v. to fill something with air or gas so that it becomes bigger and rounder

synonym: blow up, expand, puff up

(1) **inflate** a tire, (2) **inflate** expense reports

She **inflated** the balloons for the party.

underground

adj. under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

synonym: subterranean, subsurface, confidential

(1) water flowing **underground**, (2) **underground** activist

Having **underground** parking has been very beneficial throughout the winter.

lava

n. molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material

synonym: molten rock, magma, volcanic rock

(1) **lava** flow, (2) molten **lava**

The volcano's eruption caused a **lava** river to flow down the mountainside.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym : pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

mitigate

v. to make less severe or less intense; to alleviate or lessen the adverse effects of something

synonym : alleviate, relieve, reduce

(1) **mitigate** risk, (2) **mitigate** a natural disaster

Efforts to **mitigate** the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym : robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

regulate

v. to control something, especially by means of rules or laws

synonym : control, restrain, handle

(1) **regulate** blood sugar levels, (2) **regulate** our conduct

We must manage to **regulate** our expenditure.

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.

validate

v. to check or prove that something is true; to make something officially or legally acceptable or approved

synonym : approve, certify, verify

(1) **validate** a hypothesis, (2) **validate** a passport

To **validate** your purchase, please visit the following link.

fortunate

adj. having good luck or lucky

synonym : fortuitous, lucky, blessed

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

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

testbed

n. a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation

synonym : experiment platform, workbench, trial ground

(1) **testbed** environment, (2) robotics **testbed**

The lab has a **testbed** for experimenting with new technologies.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym : show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

infrastructure

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

synonym : foundation, framework

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

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

roadway

n. the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders

synonym : highway, street, thoroughfare

(1) busy **roadway**, (2) **roadway** asphalt

Cyclists are not allowed on the highway **roadway** for safety reasons.

eventually

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

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed
The corporation **eventually** dominated the entire tobacco business.

lunar

adj. of or pertaining to the moon

synonym: moony

(1) **lunar** crater, (2) **lunar** surface

Ancient people felt mystified by the patterns on the **lunar** surface.

pit

n. a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit

synonym: hole, depression, indentation

(1) the bottomless **pit**, (2) the **pit** of the stomach

The **pit** of the avocado can be removed by gently wedging a spoon around it.

refuel

v. to put additional fuel into a plane, ship, car, etc.

(1) **refuel** air-to-air, (2) **refuel** bombers in flight

Our plane stopped in the country to **refuel**.

resupply

v. to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations

synonym: restock, replenish, refill

(1) **resupply** food, (2) **resupply** water

We need to **resupply** our inventory before the holiday rush.

platform

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

synonym: stage, podium, forum

(1) an arrival **platform**, (2) a digital **platform** for enterprise

The speaker mounted the **platform** and started to speak.

presence

n. the fact or state that someone or something exists, occurs, or is present

synonym: existence, actuality, fact

(1) the evidence of the **presence**, (2) his majestic **presence**

The path to a solid online **presence** necessitates a high technical ability.

advance

v. to go or move forward; to develop in a positive way

synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

viability

n. the ability of something to be successful or to continue to exist

synonym: feasibility, practicability, workability

(1) cellular **viability**, (2) **viability** of the business

The project's **viability** was uncertain, so we put it on hold.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

requirement

n. something that is needed or wanted

synonym: prerequisite, provision, condition

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

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

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.

volunteer

n. a person who performs or offers to perform a job or service without being paid for or forced to do

synonym: unpaid worker, draftee, enlistee

(1) seek **volunteers**, (2) my **volunteer** work

The teachers make full use of **volunteer** assistance.

simulate

v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

synonym: pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

inclined

adj. having a tendency or preference for something; likely or disposed to think, feel, or behave in a certain way

synonym: disposed, prone, likely

(1) **inclined** to think, (2) **inclined** angle

I am **inclined** to believe that she is telling the truth.

aeroponic

adj. relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients

synonym: aerospace, hydroponic, mist

(1) **aeroponic** vegetable, (2) **aeroponic** garden

An **aeroponic** system uses mist to grow plants.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

cabin

n. a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed

compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep

synonym: hut, cottage, shack

(1) **cabin** crew, (2) log **cabin**

The quaint **cabin** in the woods was the perfect retreat for a weekend getaway.

cozy

adj. comfortable and warm; giving a feeling of comfort, warmth, and relaxation

synonym: comfortable, warm, snug

(1) have **cozy** relations, (2) **cozy** sound of rain

The fireplace made the room feel **cozy** and inviting.

topic

n. a subject that is being discussed or written about

synonym: subject, theme, issue

(1) a serious **topic**, (2) the **topic** of the book

The **topic** of the discussion was the current state of the economy.

restrictive

adj. limiting or confining in nature; imposing limits or restrictions on something or someone

synonym: limiting, inhibiting, confining

(1) **restrictive** policy, (2) **restrictive** diet

The dress code at the office is very **restrictive** and doesn't allow any casual clothing.

constraint

n. a limit or restriction on something, such as an action, behavior, or thought

synonym: limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time **constraints**

The budget **constraint** forced them to make difficult decisions.

creative

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

synonym: imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

grasp

v. to take hold of something or someone quickly and firmly

synonym: grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

chronic

adj. being long-lasting and recurrent or characterized by long suffering; habitual

synonym: established, regular, constant

(1) risk of **chronic** disease, (2) **chronic** alcohol consumption

Chronic hyperglycemia is a trigger for a variety of serious diseases.

homeless

adj. without a home, and therefore typically living on the streets

synonym: destitute, displaced, transient

(1) **homeless** shelter, (2) a **homeless** cat

He became **homeless** after losing his job.

hurricane

n. a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

synonym: cyclone, typhoon, storm

(1) a **hurricane** of applause, (2) the ravages of a **hurricane**

The devastating **hurricane** caused widespread damage and left many people homeless.

disaster

n. an unexpected event or series of events that cause widespread damage, destruction, or loss of life

synonym: catastrophe, calamity, tragedy

(1) global **disaster**, (2) **disaster** recovery

The **disaster** response team worked around the clock to aid those affected by the earthquake.

relief

n. a feeling of happiness and relaxation that comes when something burdensome is removed or reduced

synonym: remedy, consolation, alleviation

(1) tax **relief**, (2) sigh of **relief**

He devoted his life to establishing a humanitarian **relief** fund.

rethink

v. to consider again a plan, idea, etc., especially to change it

synonym: reexplore, review, reconsider

(1) **rethink** a marketing plan, (2) **rethink** the role of the manager

We have to **rethink** our company's product lineup for further growth.

sustainable

adj. able to continue or be continued for a long time

synonym: continuable, endurable, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

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.

redound

v. to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive

synonym: contribute, result, benefit

(1) **redound** to the team's victory, (2) **redound** to our advantage

His dedication to his work **redounds** to his success.

dividend

n. a sum of money paid regularly, typically quarterly, by a company to its shareholders out of its profits or reserves

synonym: payout, distribution, return

(1) **dividend** on equity ratio, (2) receive a **dividend**

The company announced a quarterly **dividend** of \$0.50 per share.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

lifeboat

n. a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning

synonym: rescue boat, safety boat, emergency vessel

(1) launch **lifeboat**, (2) coastal **lifeboat** station

The passengers were evacuated from the sinking ship and boarded the **lifeboat**.

ailment

n. a slight but often persistent illness

synonym: illness, disorder, infection

(1) heart **ailment**, (2) age-related **ailment**

He got timely treatment for his physical **ailment** of severe back pain.

survival

n. the state of continuing to exist or live, frequently in the face of difficulty or danger

synonym: endurance, continuity

(1) **survival** ability, (2) **survival** food

He evaluated his chances for **survival** rather pessimistically.

venture

n. a business project or activity that is risky or daring

synonym: enterprise, undertaking, adventure

(1) **venture** capital, (2) a joint **venture**

The **venture** into the new market was risky, but it paid off.

orbit

n. the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

synonym: path, course, trajectory

(1) the **orbit** of the moon, (2) a planetary **orbit**

The rocket engine is used to put the satellite into **orbit**.

cusp

n. a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

synonym: point, apex, tip

(1) **cusp** of change, (2) a single **cusp**

The project was on the **cusp** of success and needed a little more funding.

radical

adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions

synonym: extreme, revolutionary

(1) a **radical** flaw in the plan, (2) a **radical** cure

The government established by the coup was more **radical** than before.

transformation

n. a complete change in form, nature, or appearance of someone or something

synonym: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

frontier

n. a border that separates two countries, or the area near this line

synonym: border, boundary, borderland

(1) **frontier** disputes, (2) the Italian **frontier** with Switzerland
He worked at the **frontier** of behavioral economics.

Session 2: Spelling

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| 1. an arrival pl_____rm | <i>n.</i> the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed |
| 2. ex_____te soil | <i>v.</i> to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something |
| 3. a vast inventory of ha_____re | <i>n.</i> durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems |
| 4. com_____ty theory | <i>n.</i> the state or quality of being complicated or intricate and difficult to understand |
| 5. gr_____ry environment | <i>n.</i> plant life, especially lush and flourishing vegetation |
| 6. ae_____ic garden | <i>adj.</i> relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients |
| 7. the characters that re_____nt numbers | <i>v.</i> to speak, act, or be present on behalf of another person or group; to form or constitute |
| 8. th___e in a society | <i>v.</i> to grow vigorously; to make steady progress |
| 9. pro_____ely long time | <i>adv.</i> in a manner that discourages or prevents something from happening or being done, especially by making it too expensive |

ANSWERS: 1. platform, 2. excavate, 3. hardware, 4. complexity, 5. greenery, 6. aeroponic, 7. represent, 8. thrive, 9. prohibitively

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|-------------------------------------|---|
| 10. res_____ve policy | <i>adj.</i> limiting or confining in nature; imposing limits or restrictions on something or someone |
| 11. exp_____nt design | <i>n.</i> the scientific test conducted to observe what happens and gain new knowledge |
| 12. int_____ory biology text | <i>adj.</i> intended as an introduction or preliminary; serving as a base or starting point |
| 13. IT inf_____ure | <i>n.</i> the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies |
| 14. my vo_____er work | <i>n.</i> a person who performs or offers to perform a job or service without being paid for or forced to do |
| 15. re_____k a marketing plan | <i>v.</i> to consider again a plan, idea, etc., especially to change it |
| 16. ex-s__u conservation | <i>adj.</i> short for "situated," meaning located or placed in a particular position or circumstance |
| 17. inc_____te the current trends | <i>v.</i> to include something as a part of a larger entity |
| 18. the evidence of the pr_____ce | <i>n.</i> the fact or state that someone or something exists, occurs, or is present |
| 19. beautiful arc_____ral landmarks | <i>adj.</i> of or relating to the design and construction of buildings and other structures and the features and style of such structures |
| 20. te_____te grassland | <i>adj.</i> mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude |

ANSWERS: 10. restrictive, 11. experiment, 12. introductory, 13. infrastructure, 14. volunteer, 15. rethink, 16. situ, 17. incorporate, 18. presence, 19. architectural, 20. temperate

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|--------------------------------|--|
| 21. a hard and re_____nt steel | <i>adj.</i> able to withstand or recover quickly from difficult conditions |
| 22. l__a flow | <i>n.</i> molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material |
| 23. ca__n crew | <i>n.</i> a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep |
| 24. robotics te____d | <i>n.</i> a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation |
| 25. gr__p his hand | <i>v.</i> to take hold of something or someone quickly and firmly |
| 26. the wel_____ng of a nation | <i>n.</i> the state of being happy and healthy and prosperous |
| 27. su_____e a plane crash | <i>v.</i> to live or exist despite a dangerous event or period |
| 28. te_____te behavior | <i>adj.</i> mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude |
| 29. en_____er shortage | <i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software |

ANSWERS: 21. resilient, 22. lava, 23. cabin, 24. testbed, 25. grasp, 26. well-being, 27. survive, 28. temperate, 29. engineer

30. layer of re____th	<i>n.</i> the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids
31. de____y safety measures	<i>v.</i> to move troops or weapons into a position or military action; to bring into something in an effective way
32. a civil en____er	<i>n.</i> a person whose job is designing, building, or maintaining something such as machines, structures, or software
33. ca____n dioxide	<i>n.</i> a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
34. tel____ics engineer	<i>n.</i> a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology
35. re____l air-to-air	<i>v.</i> to put additional fuel into a plane, ship, car, etc.
36. the film c____w	<i>n.</i> a group of people who work together, especially on a ship or airplane
37. r____y on convenience stores	<i>v.</i> to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
38. re____ly food	<i>v.</i> to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations

ANSWERS: 30. regolith, 31. deploy, 32. engineer, 33. carbon, 34. telerobotics, 35. refuel, 36. crew, 37. rely, 38. resupply

39. pro_____on of disease	<i>n.</i> the act or process of changing to the next stage or phase or moving forward
40. dem_____te mastery	<i>v.</i> to display something or give an exhibition to an interested audience
41. in_____or decoration	<i>n.</i> the inside or inner part of something; the space within the walls of a building
42. te_____d environment	<i>n.</i> a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation
43. exquisitely cho_____phed	<i>v.</i> to compose a sequence of dance steps, often to music
44. the c__w of a fishing boat	<i>n.</i> a group of people who work together, especially on a ship or airplane
45. in_____te into the existing system	<i>v.</i> to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
46. re_____nt population	<i>adj.</i> able to withstand or recover quickly from difficult conditions
47. pr_____al English	<i>adj.</i> of or connected with actual use or real situation rather than with theory and ideas
48. m_r a proper relationship	<i>v.</i> to damage or spoil the appearance or surface of something
49. less fo_____te person	<i>adj.</i> having good luck or lucky
50. di_____nd on equity ratio	<i>n.</i> a sum of money paid regularly, typically quarterly, by a company to its shareholders out of its profits or reserves

ANSWERS: 39. progression, 40. demonstrate, 41. interior, 42. testbed, 43. choreograph, 44. crew, 45. integrate, 46. resilient, 47. practical, 48. mar, 49. fortunate, 50. dividend

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| 51. de___y troops for battle | <i>v.</i> to move troops or weapons into a position or military action; to bring into something in an effective way |
| 52. ex_____e the world | <i>v.</i> to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it |
| 53. as_____ut in training | <i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere |
| 54. pro_____ve development | <i>adj.</i> relating to or supporting development or advancement, especially social or political one |
| 55. b__d old letters into a bundle | <i>v.</i> to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly |
| 56. pr_____ct for gold | <i>n.</i> the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals |
| 57. meet req_____nt | <i>n.</i> something that is needed or wanted |
| 58. pio_____ng research | <i>adj.</i> involving new ideas or methods; being the first of their kind; leading the way in a particular field |
| 59. log ca__n | <i>n.</i> a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep |

ANSWERS: 51. deploy, 52. explore, 53. astronaut, 54. progressive, 55. bind, 56. prospect, 57. requirement, 58. pioneering, 59. cabin

60. b__d the man's hands	<i>v.</i> to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
61. sigh of re___f	<i>n.</i> a feeling of happiness and relaxation that comes when something burdensome is removed or reduced
62. a sense of wel_____ng	<i>n.</i> the state of being happy and healthy and prosperous
63. second co___c velocity	<i>adj.</i> relating to the universe or cosmos; vast or limitless
64. r__y entirely on him	<i>v.</i> to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
65. op_____e 24 hours a day	<i>v.</i> to work in a particular way; to supervise something
66. pio_____ng spirit	<i>adj.</i> involving new ideas or methods; being the first of their kind; leading the way in a particular field
67. heart ai_____t	<i>n.</i> a slight but often persistent illness
68. b_t detection	<i>n.</i> a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
69. con_____nt on business activity	<i>n.</i> a limit or restriction on something, such as an action, behavior, or thought

ANSWERS: 60. bind, 61. relief, 62. well-being, 63. cosmic, 64. rely, 65. operate, 66. pioneering, 67. ailment, 68. bot, 69. constraint

70. global em_____ons of greenhouse gases	<i>n.</i> the act of production or sending out gas, heat, light, etc.
71. recent su____y	<i>n.</i> an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
72. in____t coin	<i>v.</i> to put something inside something else
73. ind_____al freedom	<i>n.</i> a single person or thing, as distinct from a group
74. cognitive com_____ty	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand
75. ex____d a lineup	<i>v.</i> to increase or to make something greater in size, number, or importance
76. re_____ne the future	<i>v.</i> to imagine or conceive of something in a new or different way
77. de__y a flight three hours	<i>v.</i> to cause something to happen at a later time than originally intended or expected
78. lu__r crater	<i>adj.</i> of or pertaining to the moon
79. ai_____ht container	<i>adj.</i> tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable
80. co____c background radiation	<i>adj.</i> relating to the universe or cosmos; vast or limitless
81. inv_____te a data leak	<i>v.</i> to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth

ANSWERS: 70. emission, 71. survey, 72. insert, 73. individual, 74. complexity, 75. expand, 76. reimagine, 77. delay, 78. lunar, 79. airtight, 80. cosmic, 81. investigate

82. ad__t fully to the environment	<i>v.</i> to make fit for or change to suit a new purpose or environment
83. se___d orders	<i>adj.</i> closed or secured with
84. a hu_____ne of applause	<i>n.</i> a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)
85. ex_____te a deep hole	<i>v.</i> to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something
86. in-s__u control	<i>adj.</i> short for "situated," meaning located or placed in a particular position or circumstance
87. ex_____e weather events	<i>adj.</i> very great in amount or degree
88. dem_____te a difference	<i>v.</i> to display something or give an exhibition to an interested audience
89. plenty of in_____or space	<i>n.</i> the inside or inner part of something; the space within the walls of a building
90. m_r the reputation	<i>v.</i> to damage or spoil the appearance or surface of something
91. cellular vi_____ty	<i>n.</i> the ability of something to be successful or to continue to exist
92. opaque to X-r_ys	<i>n.</i> a narrow line of light, heat, or another form of energy
93. ai_____ht seal	<i>adj.</i> tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable

ANSWERS: 82. adapt, 83. sealed, 84. hurricane, 85. excavate, 86. situ, 87. extreme, 88. demonstrate, 89. interior, 90. mar, 91. viability, 92. ray, 93. airtight

94. du____e peace	<i>adj.</i> capable of lasting and being used for a long time without being damaged or destroyed
95. in____ed to think	<i>adj.</i> having a tendency or preference for something; likely or disposed to think, feel, or behave in a certain way
96. ga____ic scale	<i>adj.</i> relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
97. ex____e sports	<i>adj.</i> very great in amount or degree
98. va____te a hypothesis	<i>v.</i> to check or prove that something is true; to make something officially or legally acceptable or approved
99. res____le for a customer service	<i>adj.</i> answerable or accountable for something within one's power, control, or management
100. the bottomless p_t	<i>n.</i> a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
101. effect of cosmic r_ys	<i>n.</i> a narrow line of light, heat, or another form of energy
102. pro____ely difficult	<i>adv.</i> in a manner that discourages or prevents something from happening or being done, especially by making it too expensive
103. digitization of an____g sounds	<i>adj.</i> relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

ANSWERS: 94. durable, 95. inclined, 96. galactic, 97. extreme, 98. validate, 99. responsible, 100. pit, 101. ray, 102. prohibitively, 103. analog

104. pe____ve light	<i>v.</i> to become aware or conscious of something through the senses
105. con_____te to society	<i>v.</i> to give something, especially money or goods, to provide or achieve something together with other people
106. in_____et the question	<i>v.</i> to explain or assign the meaning of information, actions, etc.
107. gr__p a chance	<i>v.</i> to take hold of something or someone quickly and firmly
108. env_____nt affairs	<i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live
109. res_____ve diet	<i>adj.</i> limiting or confining in nature; imposing limits or restrictions on something or someone
110. si_____te a future scenario	<i>v.</i> to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
111. risk of ch_____c disease	<i>adj.</i> being long-lasting and recurrent or characterized by long suffering; habitual
112. pe_____nt life insurance	<i>adj.</i> lasting for a long time without essential change
113. the Italian fr_____er with Switzerland	<i>n.</i> a border that separates two countries, or the area near this line
114. the atmospheric tem_____re	<i>n.</i> the degree of hotness or coldness of a thing or place
115. in_____al organs	<i>adj.</i> of or relating to the inside of something

ANSWERS: 104. perceive, 105. contribute, 106. interpret, 107. grasp, 108. environment, 109. restrictive, 110. simulate, 111. chronic, 112. permanent, 113. frontier, 114. temperature, 115. internal

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|-----------------------------|--|
| 116. pe____ve a threat | <i>v.</i> to become aware or conscious of something through the senses |
| 117. launch li____at | <i>n.</i> a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning |
| 118. re_____nt by a diagram | <i>v.</i> to speak, act, or be present on behalf of another person or group; to form or constitute |
| 119. du_____e materials | <i>adj.</i> capable of lasting and being used for a long time without being damaged or destroyed |
| 120. hold your br____h | <i>n.</i> the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs |
| 121. su_____e a blizzard | <i>v.</i> to live or exist despite a dangerous event or period |
| 122. an ai_____k chamber | <i>n.</i> a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other |
| 123. cr_____ve writing | <i>adj.</i> relating to or involving the use of skill and original and unusual ideas to create something |
| 124. a gear change le__r | <i>n.</i> a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily |

ANSWERS: 116. perceive, 117. lifeboat, 118. represent, 119. durable, 120. breath, 121. survive, 122. airlock, 123. creative, 124. lever

125. ex___d agricultural output	<i>v.</i> to increase or to make something greater in size, number, or importance
126. the se_____ce of the seasons	<i>n.</i> a series of related events, actions, numbers, etc., which have a particular order
127. re_____d to our advantage	<i>v.</i> to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive
128. wi_____nd temptation	<i>v.</i> to resist the effect or impact of something
129. political ma_____ers	<i>n.</i> a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
130. fo_____te situation	<i>adj.</i> having good luck or lucky
131. ar_____ct of the peace accord	<i>n.</i> a person whose job is to design plans to be used in making something, such as buildings
132. re_____te blood sugar levels	<i>v.</i> to control something, especially by means of rules or laws
133. age-related ai_____t	<i>n.</i> a slight but often persistent illness
134. co_____ct a dam	<i>v.</i> to build or create something; to assemble or combine different parts to form something whole
135. co_____e chemically with another substance	<i>v.</i> to join or merge to form a single thing or group
136. chaotic env_____nt	<i>n.</i> the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 125. expand, 126. sequence, 127. rebound, 128. withstand, 129. maneuver, 130. fortunate, 131. architect, 132. regulate, 133. ailment, 134. construct, 135. combine, 136. environment

137. sus_____le alternative fuel	<i>adj.</i> able to continue or be continued for a long time
138. th___e on pressure	<i>v.</i> to grow vigorously; to make steady progress
139. fr_____er disputes	<i>n.</i> a border that separates two countries, or the area near this line
140. water flowing und_____nd	<i>adj.</i> under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
141. co_____ct a 3D image	<i>v.</i> to build or create something; to assemble or combine different parts to form something whole
142. a single c__p	<i>n.</i> a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved
143. in_____e a tire	<i>v.</i> to fill something with air or gas so that it becomes bigger and rounder
144. in___t a graphic	<i>v.</i> to put something inside something else
145. tel_____ics system	<i>n.</i> a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology
146. rainproof sh_____r	<i>n.</i> a structure built to protect from poor weather, danger, or attack:
147. op_____l for intellectual growth	<i>adj.</i> the best; most likely to be successful or advantageous
148. coastal li_____at station	<i>n.</i> a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning

ANSWERS: 137. sustainable, 138. thrive, 139. frontier, 140. underground, 141. construct, 142. cusp, 143. inflate, 144. insert, 145. telerobotics, 146. shelter, 147. optimal, 148. lifeboat

149. the or__t of the moon	<i>n.</i> the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
150. student on a ti__t budget	<i>adj.</i> fixed, fastened, or kept together firmly or closely
151. re____k the role of the manager	<i>v.</i> to consider again a plan, idea, etc., especially to change it
152. psy_____gy of crowd	<i>n.</i> the scientific study of mind and behavior
153. have c__y relations	<i>adj.</i> comfortable and warm; giving a feeling of comfort, warmth, and relaxation
154. com_____te well with my advisor	<i>v.</i> to share or exchange information with others by speaking, writing, moving your body, or using other signals
155. pro_____ve taxation	<i>adj.</i> relating to or supporting development or advancement, especially social or political one
156. ch____c alcohol consumption	<i>adj.</i> being long-lasting and recurrent or characterized by long suffering; habitual
157. ho____ss shelter	<i>adj.</i> without a home, and therefore typically living on the streets
158. the gr____ry in a courtyard	<i>n.</i> plant life, especially lush and flourishing vegetation
159. ou____t area	<i>n.</i> a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
160. the du____on of insurance	<i>n.</i> the length of time something lasts or continues
161. und_____nd activist	<i>adj.</i> under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force

ANSWERS: 149. orbit, 150. tight, 151. rethink, 152. psychology, 153. cozy, 154. communicate, 155. progressive, 156. chronic, 157. homeless, 158. greenery, 159. outpost, 160. duration, 161. underground

162. com_____te his anxieties to the psychiatrist	<i>v.</i>	to share or exchange information with others by speaking, writing, moving your body, or using other signals
163. manually op_____e a machine	<i>v.</i>	to work in a particular way; to supervise something
164. su_____se entrance test takers	<i>v.</i>	to watch over and direct someone or something, especially in a position of responsibility
165. a serious to__c	<i>n.</i>	a subject that is being discussed or written about
166. f__t accomplishment	<i>n.</i>	a notable or impressive achievement, especially one that requires great skill or bravery
167. anti-air raid sh_____r	<i>n.</i>	a structure built to protect from poor weather, danger, or attack:
168. br____h of wind	<i>n.</i>	the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
169. seek vo_____ers	<i>n.</i>	a person who performs or offers to perform a job or service without being paid for or forced to do
170. inf_____ure cost	<i>n.</i>	the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
171. a private ind_____al	<i>n.</i>	a single person or thing, as distinct from a group
172. po__t the premise	<i>v.</i>	to suggest or accept something as fact or as a basis for argument or consideration

ANSWERS: 162. communicate, 163. operate, 164. supervise, 165. topic, 166. feat, 167. shelter, 168. breath, 169. volunteer, 170. infrastructure, 171. individual, 172. posit

173. the DNA se____ce	<i>n.</i> a series of related events, actions, numbers, etc., which have a particular order
174. ex____e our options	<i>v.</i> to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it
175. man____re a product	<i>v.</i> to make goods in large numbers, usually in a factory using machines
176. electromagnetic ra____on	<i>n.</i> the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
177. intellectual f__t	<i>n.</i> a notable or impressive achievement, especially one that requires great skill or bravery
178. a ti__t game	<i>adj.</i> fixed, fastened, or kept together firmly or closely
179. re____d to the team's victory	<i>v.</i> to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive
180. the p_t of the stomach	<i>n.</i> a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
181. landscape ar____ct	<i>n.</i> a person whose job is to design plans to be used in making something, such as buildings

ANSWERS: 173. sequence, 174. explore, 175. manufacture, 176. radiation, 177. feat, 178. tight, 179. redound, 180. pit, 181. architect

182. product int_____ory sale	<i>adj.</i> intended as an introduction or preliminary; serving as a base or starting point
183. a comprehensive su____y	<i>n.</i> an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
184. food ad_____ve	<i>n.</i> a substance added to something in small amounts, especially food, to improve or preserve it
185. le__r for reform	<i>n.</i> a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
186. school req_____nt	<i>n.</i> something that is needed or wanted
187. ad__t as needed	<i>v.</i> to make fit for or change to suit a new purpose or environment
188. d__t road	<i>n.</i> soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
189. pr_____lt homes	<i>adj.</i> constructed or assembled in advance of its use or installation
190. vi_____ty of the business	<i>n.</i> the ability of something to be successful or to continue to exist
191. cast a tra_____ion spell	<i>n.</i> a complete change in form, nature, or appearance of someone or something
192. eve_____ly succeed	<i>adv.</i> finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 182. introductory, 183. survey, 184. additive, 185. lever, 186. requirement, 187. adapt, 188. dirt, 189. prebuilt, 190. viability, 191. transformation, 192. eventually

193. ind_____us crop	<i>adj.</i> someone or something that is native to or occurring naturally in a particular place
194. military ou_____t	<i>n.</i> a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.
195. an aut_____us judiciary	<i>adj.</i> capable of governing or controlling its affairs
196. job pr_____cts	<i>n.</i> the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
197. a ra_____l cure	<i>adj.</i> relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions
198. the ravages of a hu_____ne	<i>n.</i> a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)
199. literature of pe_____nt value	<i>adj.</i> lasting for a long time without essential change
200. the ha_____re department	<i>n.</i> durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
201. deleterious chemical ad_____ves	<i>n.</i> a substance added to something in small amounts, especially food, to improve or preserve it

ANSWERS: 193. indigenous, 194. outpost, 195. autonomous, 196. prospect, 197. radical, 198. hurricane, 199. permanent, 200. hardware, 201. additive

202. remain ab___d	<i>adv.</i> on or onto a ship, aircraft, or other vehicles; present or participating in a particular activity or endeavor
203. se___d jar	<i>adj.</i> closed or secured with
204. inv_____te the matter	<i>v.</i> to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
205. re_____te our conduct	<i>v.</i> to control something, especially by means of rules or laws
206. molten l__a	<i>n.</i> molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material
207. a joint ve_____e	<i>n.</i> a business project or activity that is risky or daring
208. a heat sh___d	<i>n.</i> a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
209. a ra_____l flaw in the plan	<i>adj.</i> relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions
210. gain pr_____al experience	<i>adj.</i> of or connected with actual use or real situation rather than with theory and ideas
211. psy_____gy experiment	<i>n.</i> the scientific study of mind and behavior
212. in_____et a graph	<i>v.</i> to explain or assign the meaning of information, actions, etc.

ANSWERS: 202. aboard, 203. sealed, 204. investigate, 205. regulate, 206. lava, 207. venture, 208. shield, 209. radical, 210. practical, 211. psychology, 212. interpret

213. future of space exp_____on	<i>n.</i> the activity of searching and finding out about something through a place
214. ca___n emission	<i>n.</i> a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
215. re___l bombers in flight	<i>v.</i> to put additional fuel into a plane, ship, car, etc.
216. co_____e augmented reality	<i>v.</i> to join or merge to form a single thing or group
217. a glass t___e	<i>n.</i> a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
218. re_____ne the possibilities	<i>v.</i> to imagine or conceive of something in a new or different way
219. res_____le action	<i>adj.</i> answerable or accountable for something within one's power, control, or management
220. a sh___d for protecting against a bullet	<i>n.</i> a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
221. an Arctic exp_____on	<i>n.</i> the activity of searching and finding out about something through a place
222. re_____ly water	<i>v.</i> to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations

ANSWERS: 213. exploration, 214. carbon, 215. refuel, 216. combine, 217. tube, 218. reimagine, 219. responsible, 220. shield, 221. exploration, 222. resupply

223. in____ed angle	<i>adj.</i> having a tendency or preference for something; likely or disposed to think, feel, or behave in a certain way
224. di____er recovery	<i>n.</i> an unexpected event or series of events that cause widespread damage, destruction, or loss of life
225. ind____us peoples	<i>adj.</i> someone or something that is native to or occurring naturally in a particular place
226. the influence of mec____al action	<i>adj.</i> operated by a machine, relating to or concerned with machinery or tools
227. spam b_t	<i>n.</i> a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users
228. the em____on of light	<i>n.</i> the act of production or sending out gas, heat, light, etc.
229. co____t suicide	<i>v.</i> to do something illegal or wrong
230. co____t mistakes	<i>v.</i> to do something illegal or wrong
231. strict time con____nts	<i>n.</i> a limit or restriction on something, such as an action, behavior, or thought
232. the st____re of a machine	<i>n.</i> the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
233. a planetary or__t	<i>n.</i> the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

ANSWERS: 223. inclined, 224. disaster, 225. indigenous, 226. mechanical, 227. bot, 228. emission, 229. commit, 230. commit, 231. constraint, 232. structure, 233. orbit

234. made a great ma____er	<i>n.</i> a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
235. eve_____ly become obsolete	<i>adv.</i> finally, particularly after a long time or a lot of struggle, complications, and so on
236. pl____t like the Earth	<i>n.</i> any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
237. c__y sound of rain	<i>adj.</i> comfortable and warm; giving a feeling of comfort, warmth, and relaxation
238. su_____se team activity	<i>v.</i> to watch over and direct someone or something, especially in a position of responsibility
239. a ga_____ic system	<i>adj.</i> relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
240. con_____te a large sum of money to the fund	<i>v.</i> to give something, especially money or goods, to provide or achieve something together with other people
241. a digital pl_____rm for enterprise	<i>n.</i> the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
242. re_____th samples	<i>n.</i> the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids

ANSWERS: 234. maneuver, 235. eventually, 236. planet, 237. cozy, 238. supervise, 239. galactic, 240. contribute, 241. platform, 242. regolith

243. su____al ability	<i>n.</i> the state of continuing to exist or live, frequently in the face of difficulty or danger
244. the tra_____ion of a tadpole into a frog	<i>n.</i> a complete change in form, nature, or appearance of someone or something
245. an an___g watch	<i>adj.</i> relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
246. ad____e a cooperative relationship	<i>v.</i> to go or move forward; to develop in a positive way
247. the to__c of the book	<i>n.</i> a subject that is being discussed or written about
248. eq__p an army	<i>v.</i> to provide a person or a place with the things that are needed for a particular purpose or activity
249. a mec_____al style of writing	<i>adj.</i> operated by a machine, relating to or concerned with machinery or tools
250. busy ro_____y	<i>n.</i> the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders
251. ai____k module	<i>n.</i> a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other
252. in____e expense reports	<i>v.</i> to fill something with air or gas so that it becomes bigger and rounder
253. ae_____ic vegetable	<i>adj.</i> relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients

ANSWERS: 243. survival, 244. transformation, 245. analog, 246. advance, 247. topic, 248. equip, 249. mechanical, 250. roadway, 251. airlock, 252. inflate, 253. aeroponic

254. la___h a spaceship into orbit	<i>v.</i> to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
255. in_____te both businesses	<i>v.</i> to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
256. ro_____y asphalt	<i>n.</i> the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders
257. principles of sus_____le development	<i>adj.</i> able to continue or be continued for a long time
258. a ho_____ss cat	<i>adj.</i> without a home, and therefore typically living on the streets
259. ab___d the ship	<i>adv.</i> on or onto a ship, aircraft, or other vehicles; present or participating in a particular activity or endeavor
260. pr_____lt packages	<i>adj.</i> constructed or assembled in advance of its use or installation
261. st_____re and function of the brain	<i>n.</i> the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
262. ve_____e capital	<i>n.</i> a business project or activity that is risky or daring
263. si_____te climate change	<i>v.</i> to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 254. launch, 255. integrate, 256. roadway, 257. sustainable, 258. homeless, 259. aboard, 260. prebuilt, 261. structure, 262. venture, 263. simulate

264. save the pl____t	<i>n.</i> any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
265. wi_____nd pressure	<i>v.</i> to resist the effect or impact of something
266. va_____te a passport	<i>v.</i> to check or prove that something is true; to make something officially or legally acceptable or approved
267. receive a di_____nd	<i>n.</i> a sum of money paid regularly, typically quarterly, by a company to its shareholders out of its profits or reserves
268. his majestic pr_____ce	<i>n.</i> the fact or state that someone or something exists, occurs, or is present
269. study arc_____ral engineering	<i>adj.</i> of or relating to the design and construction of buildings and other structures and the features and style of such structures
270. barren of cr_____ve spirit	<i>adj.</i> relating to or involving the use of skill and original and unusual ideas to create something
271. ad_____e the technology	<i>v.</i> to go or move forward; to develop in a positive way
272. man_____re an enzyme	<i>v.</i> to make goods in large numbers, usually in a factory using machines
273. extreme tem_____res	<i>n.</i> the degree of hotness or coldness of a thing or place
274. tax re____f	<i>n.</i> a feeling of happiness and relaxation that comes when something burdensome is removed or reduced

ANSWERS: 264. planet, 265. withstand, 266. validate, 267. dividend, 268. presence, 269. architectural, 270. creative, 271. advance, 272. manufacture, 273. temperature, 274. relief

275. c__p of change	<i>n.</i> a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved
276. d__t track	<i>n.</i> soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
277. re____le each other	<i>v.</i> to look like or be similar to someone or something
278. co____ve a child	<i>v.</i> to have or develop an idea, a plan, etc. in mind; to become pregnant
279. inc____te technology into daily life	<i>v.</i> to include something as a part of a larger entity
280. cho____ph a stage performance	<i>v.</i> to compose a sequence of dance steps, often to music
281. exposure to ra____on	<i>n.</i> the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
282. lu__r surface	<i>adj.</i> of or pertaining to the moon
283. po__t the existence of life after death	<i>v.</i> to suggest or accept something as fact or as a basis for argument or consideration
284. series of exp____nts	<i>n.</i> the scientific test conducted to observe what happens and gain new knowledge
285. global di____er	<i>n.</i> an unexpected event or series of events that cause widespread damage, destruction, or loss of life

ANSWERS: 275. cusp, 276. dirt, 277. resemble, 278. conceive, 279. incorporate, 280. choreograph, 281. radiation, 282. lunar, 283. posit, 284. experiment, 285. disaster

286. short du____on	<i>n.</i> the length of time something lasts or continues
287. achieve op____l health	<i>adj.</i> the best; most likely to be successful or advantageous
288. co____ve of an idea	<i>v.</i> to have or develop an idea, a plan, etc. in mind; to become pregnant
289. pro____on of civilization	<i>n.</i> the act or process of changing to the next stage or phase or moving forward
290. as____ut mission	<i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere
291. a capillary t__e	<i>n.</i> a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
292. re____le her mother	<i>v.</i> to look like or be similar to someone or something
293. su____al food	<i>n.</i> the state of continuing to exist or live, frequently in the face of difficulty or danger
294. the in____al economy	<i>adj.</i> of or relating to the inside of something
295. mi____te risk	<i>v.</i> to make less severe or less intense; to alleviate or lessen the adverse effects of something
296. eq__p our children with some special skills	<i>v.</i> to provide a person or a place with the things that are needed for a particular purpose or activity
297. de__y the new project	<i>v.</i> to cause something to happen at a later time than originally intended or expected

ANSWERS: 286. duration, 287. optimal, 288. conceive, 289. progression, 290. astronaut, 291. tube, 292. resemble, 293. survival, 294. internal, 295. mitigate, 296. equip, 297. delay

298. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
299. development of aut____us vehicles *adj.* capable of governing or controlling its affairs
300. mi____te a natural disaster *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something

ANSWERS: 298. launch, 299. autonomous, 300. mitigate

Session 3: Fill in the Blanks

1. Without investment, a business cannot _____.
v. to grow vigorously; to make steady progress
2. The national election was held amid _____ security.
adj. fixed, fastened, or kept together firmly or closely
3. We packed and shipped the product in _____ containers.
adj. closed or secured with
4. The company is trying to _____ its business model to stay competitive.
v. to imagine or conceive of something in a new or different way
5. That _____ shows that people are accepting the tax increase to some extent.
n. an investigation of the opinions, behavior, etc. of a particular group of people, made by asking people questions
6. We elected him to _____ us at the international conference.
v. to speak, act, or be present on behalf of another person or group; to form or constitute
7. His dedication to his work _____ to his success.
v. to have a favorable or unfavorable impact, effect, or consequence; to contribute or result in something, often something positive
8. Gamma _____ penetrate body tissues and cause cell damage.
n. a narrow line of light, heat, or another form of energy

ANSWERS: 1. thrive, 2. tight, 3. sealed, 4. reimagine, 5. survey, 6. represent, 7. redounds, 8. rays

9. The military incarcerated him for the _____ of the war.
n. the length of time something lasts or continues
10. The quaint _____ in the woods was the perfect retreat for a weekend getaway.
n. a small, simple dwelling or shelter, typically made of wood and located in a remote or rural area; an enclosed compartment or area within a larger structure, such as an aircraft or ship, where passengers or crew members can sit or sleep
11. I advised him to _____ to his new surroundings.
v. to make fit for or change to suit a new purpose or environment
12. She was asked to _____ the construction project.
v. to watch over and direct someone or something, especially in a position of responsibility
13. The mechanic has just inspected the jammed _____.
n. a chamber between two areas that can be sealed against pressure, allowing the passage of people and objects to go from one area to the other
14. An _____ system uses mist to grow plants.
adj. relating to a technique of growing plants without soil by suspending the roots in a mist or aerosol of nutrients
15. The teachers make full use of _____ assistance.
n. a person who performs or offers to perform a job or service without being paid for or forced to do
16. The _____ climate of the region made it an ideal vacation spot.
adj. mild or moderate in temperature or climate; exhibiting self-restraint, particularly about the consumption of food, drink, or other indulgences; showing moderation or restraint in behavior or attitude

ANSWERS: 9. duration, 10. cabin, 11. adapt, 12. supervise, 13. airlock, 14. aeroponic, 15. volunteer, 16. temperate

17. Cities around the world set records for highest _____ this summer.
n. the degree of hotness or coldness of a thing or place
18. The company's rules _____ the employee's working hours.
v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
19. He bated his _____ when talking about this affair.
n. the air that is taken into and expelled from your lungs; the process of taking into and expelling air from your lungs
20. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines
21. She _____ a new chapter into her manuscript.
v. to put something inside something else
22. The company has made great strides in its _____ toward sustainability.
n. the act or process of changing to the next stage or phase or moving forward
23. Trees absorb _____ dioxide and give off oxygen.
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
24. The lab has a _____ for experimenting with new technologies.
n. a platform or system designed to test and evaluate new technologies, software, or hardware before a full-scale implementation
25. The brothers _____ each other in the hobby.
v. to look like or be similar to someone or something

ANSWERS: 17. temperatures, 18. bind, 19. breath, 20. manufactured, 21. inserted, 22. progression, 23. carbon, 24. testbed, 25. resemble

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

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

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

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

28. The _____ approach to education emphasizes hands-on learning and student-centered classrooms.

adj. relating to or supporting development or advancement, especially social or political one

29. The management must _____ strategies to increase office security.

v. to travel to or penetrate an area or a country to learn about it; to thoroughly examine a subject or a possibility to learn more about it

30. Wild animals need to go forward with the _____ action to survive.

adj. the best; most likely to be successful or advantageous

31. The military uses _____ for surveillance, reconnaissance, and bomb disposal operations.

n. a branch of robotics that deals with the control of robots remotely over a distance using telecommunications technology

32. The passengers were evacuated from the sinking ship and boarded the _____.

n. a small boat designed to be launched from a larger vessel in case of an emergency, typically used to rescue passengers or crew members in danger of drowning

ANSWERS: 26. Cosmic, 27. feat, 28. progressive, 29. explore, 30. optimal, 31. telerobotics, 32. lifeboat

33. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
34. Having _____ parking has been very beneficial throughout the winter.
adj. under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
35. The ____ of the avocado can be removed by gently wedging a spoon around it.
n. a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
36. The _____ class was designed to give students a basic understanding of the subject.
adj. intended as an introduction or preliminary; serving as a base or starting point
37. The project's _____ was uncertain, so we put it on hold.
n. the ability of something to be successful or to continue to exist
38. He had painted the wood to _____ stone.
v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
39. Different people might _____ this news differently.
v. to explain or assign the meaning of information, actions, etc.
40. Our company's products are made of highly _____ materials.
adj. capable of lasting and being used for a long time without being damaged or destroyed

ANSWERS: 33. structure, 34. underground, 35. pit, 36. introductory, 37. viability, 38. simulate, 39. interpret, 40. durable

41. She _____ the balloons for the party.

v. to fill something with air or gas so that it becomes bigger and rounder

42. Hydrogen and oxygen _____ to form water.

v. to join or merge to form a single thing or group

43. The _____ computer was convenient for those who didn't want to build one from scratch.

adj. constructed or assembled in advance of its use or installation

44. The government established by the coup was more _____ than before.

adj. relating to the essential aspects of anything; far beyond the norm, mainly used of opinions and actions

45. He devoted his life to establishing a humanitarian _____ fund.

n. a feeling of happiness and relaxation that comes when something burdensome is removed or reduced

46. The _____ response team worked around the clock to aid those affected by the earthquake.

n. an unexpected event or series of events that cause widespread damage, destruction, or loss of life

47. This machine is too difficult to _____ for me.

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

48. The archaeologists _____ the ruins of an ancient city buried under the desert sands.

v. to dig or remove earth, rocks, or other materials from the ground or a site, often to uncover or discover something

ANSWERS: 41. inflated, 42. combine, 43. prebuilt, 44. radical, 45. relief, 46. disaster, 47. operate, 48. excavated

49. As an _____ he had the right to make his own decisions and live his life as he saw fit.

n. a single person or thing, as distinct from a group

50. The speaker mounted the _____ and started to speak.

n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed

51. We need to _____ our inventory before the holiday rush.

v. to provide something with additional supplies or materials, often used for resupplying remote or distant outposts, such as military bases or science stations

52. 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

53. The company announced a quarterly _____ of \$0.50 per share.

n. a sum of money paid regularly, typically quarterly, by a company to its shareholders out of its profits or reserves

54. He evaluated his chances for _____ rather pessimistically.

n. the state of continuing to exist or live, frequently in the face of difficulty or danger

55. The project was on the _____ of success and needed a little more funding.

n. a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

56. The dress code at the office is very _____ and doesn't allow any casual clothing.

adj. limiting or confining in nature; imposing limits or restrictions on something or someone

ANSWERS: 49. individual, 50. platform, 51. resupply, 52. complexity, 53. dividend, 54. survival, 55. cusp, 56. restrictive

57. The building _____ tried to build the house above the tree.

n. a person whose job is to design plans to be used in making something, such as buildings

58. How can you _____ that the earth is a sphere?

v. to display something or give an exhibition to an interested audience

59. Five of the six provinces will become _____ regions under the new federal system of government.

adj. capable of governing or controlling its affairs

60. Australia is widely _____ as having low levels of corruption.

v. to become aware or conscious of something through the senses

61. 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.

62. The astronauts are studying the _____ on the Moon's surface.

n. the layer of loose and fragmented material covering solid rock on the surface of a celestial body, especially on the Moon or on asteroids

63. _____ hyperglycemia is a trigger for a variety of serious diseases.

adj. being long-lasting and recurrent or characterized by long suffering; habitual

64. She is searching for a _____ residence.

adj. lasting for a long time without essential change

65. Lead is an effective _____ against X-rays, gamma rays, and other harmful radiation.

n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves

ANSWERS: 57. architect, 58. demonstrate, 59. autonomous, 60. perceived, 61. analog, 62. regolith, 63. Chronic, 64. permanent, 65. shield

66. A _____ engineer is still in demand in many companies.

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

67. The _____ will repair my telephone tomorrow morning.

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

68. The cost of the project was _____ high for the company to consider.

adv. in a manner that discourages or prevents something from happening or being done, especially by making it too expensive

69. The translation ____ helped me translate a website from another country.

n. a computer program or software application that is capable of performing automated tasks, often on the internet; a type of electronic device that provides autonomous service or assistance to users

70. She is a _____ person and has always bounced back from setbacks.

adj. able to withstand or recover quickly from difficult conditions

71. He called for a careful _____ of the consequences.

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

72. Efforts to _____ the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

v. to make less severe or less intense; to alleviate or lessen the adverse effects of something

73. I can't _____ he'd want to harm us.

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

ANSWERS: 66. mechanical, 67. engineer, 68. prohibitively, 69. bot, 70. resilient, 71. exploration, 72. mitigate, 73. conceive

74. The garden was filled with _____ and needed to be tilled before planting.
n. soil, dust, or any substance that makes a surface not clean; the part of the earth's surface consisting of humus and disintegrated rock
75. We will attempt to _____ some of your suggestions into our future strategy.
v. to include something as a part of a larger entity
76. The path to a solid online _____ necessitates a high technical ability.
n. the fact or state that someone or something exists, occurs, or is present
77. The fireplace made the room feel _____ and inviting.
adj. comfortable and warm; giving a feeling of comfort, warmth, and relaxation
78. The _____ into the new market was risky, but it paid off.
n. a business project or activity that is risky or daring
79. They spent a lot of time trying to _____ the current situation.
v. to take hold of something or someone quickly and firmly
80. We have to _____ our company's product lineup for further growth.
v. to consider again a plan, idea, etc., especially to change it
81. Ancient people felt mystified by the patterns on the _____ surface.
adj. of or pertaining to the moon
82. Her concept is highly _____ and helpful.
adj. of or connected with actual use or real situation rather than with theory and ideas

ANSWERS: 74. dirt, 75. incorporate, 76. presence, 77. cozy, 78. venture, 79. grasp, 80. rethink, 81. lunar, 82. practical

83. The _____ of the discussion was the current state of the economy.

n. a subject that is being discussed or written about

84. The construction company _____ the building with an earthquake-resistant device.

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

85. I am _____ to believe that she is telling the truth.

adj. having a tendency or preference for something; likely or disposed to think, feel, or behave in a certain way

86. He got timely treatment for his physical _____ of severe back pain.

n. a slight but often persistent illness

87. 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

88. There are five distinct _____ at five unique wavelengths.

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

89. He _____ hypotheses that no mathematician has ever imagined before.

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

90. They need food and _____.

n. a structure built to protect from poor weather, danger, or attack:

ANSWERS: 83. topic, 84. equipped, 85. inclined, 86. ailment, 87. communicate, 88. emissions, 89. constructs, 90. shelter

91. The scratches on the car _____ its otherwise perfect appearance.
v. to damage or spoil the appearance or surface of something
92. The ship's _____ worked hard to repair the damaged sails before the next storm hit.
n. a group of people who work together, especially on a ship or airplane
93. The military has _____ an abuse of human rights.
v. to do something illegal or wrong
94. The Milky Way is a _____ collection of billions of stars and planets.
adj. relating to or concerning the galaxy or galaxies; having characteristics or qualities that are vast, extensive, or cosmic in scope
95. What is the entry _____ for this course?
n. something that is needed or wanted
96. He became _____ after losing his job.
adj. without a home, and therefore typically living on the streets
97. 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
98. Solar gravity creates _____ pressures and temperatures.
adj. very great in amount or degree
99. All the supervisor has to do is assign tasks that make his subordinates more _____.
adj. relating to or involving the use of skill and original and unusual ideas to create something

ANSWERS: 91. marred, 92. crew, 93. committed, 94. galactic, 95. requirement, 96. homeless, 97. investigated, 98. extreme, 99. creative

100. To _____ your purchase, please visit the following link.

- v.* to check or prove that something is true; to make something officially or legally acceptable or approved

101. The _____ train was packed with commuters during rush hour.

- n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

102. The budget _____ forced them to make difficult decisions.

- n.* a limit or restriction on something, such as an action, behavior, or thought

103. These birds can only _____ in temperate climates.

- v.* to live or exist despite a dangerous event or period

104. The container was _____ keeping the food fresh for longer.

- adj.* tightly sealed or enclosed, with no spaces through which air or other substances can pass; completely secure or reliable

105. 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

106. The government should do more to support environmentally _____ agriculture.

- adj.* able to continue or be continued for a long time

107. The painter focused on the moody _____ of abandoned buildings in his work.

- n.* the inside or inner part of something; the space within the walls of a building

ANSWERS: 100. validate, 101. tube, 102. constraint, 103. survive, 104. airtight, 105. planet, 106. sustainable, 107. interiors

108. The rocket engine is used to put the satellite into _____.

- n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.

109. Government workers cannot _____ to political campaigns.

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

110. The corporation _____ dominated the entire tobacco business.

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

111. In this class, we learn the basic _____ of the plane.

- n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage

112. The _____ plants need to be pollinated by local insects.

- adj.* someone or something that is native to or occurring naturally in a particular place

113. He was pretty _____ to pass the exam.

- adj.* having good luck or lucky

114. Scientific knowledge will _____ significantly with the power of AI.

- v.* to go or move forward; to develop in a positive way

115. They hope to _____ their business worldwide.

- v.* to increase or to make something greater in size, number, or importance

ANSWERS: 108. orbit, 109. contribute, 110. eventually, 111. maneuver, 112. indigenous, 113. fortunate, 114. advance, 115. expand

116. 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

117. The prime minister canceled visits to other countries to resolve _____ disputes.

- adj.* of or relating to the inside of something

118. We are responsible for the care and _____ of all our employees.

- n.* the state of being happy and healthy and prosperous

119. The company is set to _____ its new product line next month.

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

120. The devastating _____ caused widespread damage and left many people homeless.

- n.* a violent, tropical, cyclonic storm of the western North Atlantic, having wind speeds of or over 64 knots (74 miles per hour)

121. Babies heavily _____ on others for food.

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

122. The shuttle _____ trained for months before embarking on the space mission.

- n.* a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 116. radiation, 117. internal, 118. well-being, 119. launch, 120. hurricane, 121. rely, 122. astronaut

123. With the war's end, they have begun a gradual retreat from their _____.

- n.* a small military camp at some distance from the main army, used mainly to observe an enemy's movements, etc.

124. This initiative will be a _____ for increasing company sales.

- n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

125. We _____ the payment because of an incorrect invoice.

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

126. The captain announced that all passengers should be _____ the ferry before it departed for the island.

- adv.* on or onto a ship, aircraft, or other vehicles; present or participating in a particular activity or endeavor

127. She had a master's degree in _____.

- n.* the scientific study of mind and behavior

128. We must manage to _____ our expenditure.

- v.* to control something, especially by means of rules or laws

129. This country _____ its weapons in the east region.

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

130. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.

- adj.* answerable or accountable for something within one's power, control, or management

ANSWERS: 123. outposts, 124. lever, 125. delayed, 126. aboard, 127. psychology, 128. regulate, 129. deployed, 130. responsible

131. The _____ style of the building was a mix of modern and traditional.
adj. of or relating to the design and construction of buildings and other structures and the features and style of such structures
132. His _____ showed highly positive results.
n. the scientific test conducted to observe what happens and gain new knowledge
133. Cyclists are not allowed on the highway _____ for safety reasons.
n. the part of a thoroughfare or highway that is used by vehicles for driving, including the hard surface and shoulders
134. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
135. The volcano's eruption caused a _____ river to flow down the mountainside.
n. molten rock that has been extruded from a volcano and solidified; a highly fluid, highly heated substance or material
136. The gasoline _____ had leaked from the container.
n. a substance added to something in small amounts, especially food, to improve or preserve it
137. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.
n. a complete change in form, nature, or appearance of someone or something
138. Aging societies tend to require huge costs for _____ maintenance.
n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

ANSWERS: 131. architectural, 132. experiments, 133. roadway, 134. sequence, 135. lava, 136. additive, 137. transformations, 138. infrastructure

139. The _____ of starting a new business can be both exciting and daunting.
- n.* the possibility or likelihood of something happening or being successful; a person or thing that is likely to succeed or become popular; a potential customer or client; (verb) to explore for useful or valuable things or substances, such as minerals
140. Melanoma in _____ is considered the earliest stage of melanoma and has a high cure rate with appropriate treatment.
- adj.* short for "situated," meaning located or placed in a particular position or circumstance
141. We should _____ several hypotheses to discuss the matter.
- v.* to suggest or accept something as fact or as a basis for argument or consideration
142. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
143. Our plane stopped in the country to _____.
- v.* to put additional fuel into a plane, ship, car, etc.
144. He had _____ the dance in this play himself.
- v.* to compose a sequence of dance steps, often to music
145. He found that it is difficult to _____ socially.
- v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
146. The _____ scientist developed a breakthrough technology that revolutionized the industry.
- adj.* involving new ideas or methods; being the first of their kind; leading the way in a particular field

ANSWERS: 139. prospect, 140. situ, 141. posit, 142. environment, 143. refuel, 144. choreographed, 145. integrate, 146. pioneering

147. 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

148. The city plans to add more _____ in public spaces to improve air quality and aesthetic.

- n.* plant life, especially lush and flourishing vegetation

149. He worked at the _____ of behavioral economics.

- n.* a border that separates two countries, or the area near this line

150. The new phone is waterproof and can _____ being dropped in water.

- v.* to resist the effect or impact of something

ANSWERS: 147. hardware, 148. greenery, 149. frontier, 150. withstand