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Vocabulary Builder Reference from...

Fabio Pacucci: Yes, scientists are actually building an elevator to space | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

rocket

n. a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon

synonym : projectile, missile

(1) **rocket** attack against the enemy, (2) **rocket** fuel

The **rocket** launch platform is visible from this hill.

sacrifice

n. the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important

synonym : forfeit, immolation, gift

(1) small **sacrifice** for a great cause, (2) **sacrifice** anything to get ahead

You cannot accomplish great things without a **sacrifice** of your time or money.

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.

massive

adj. enormous amount; very heavy and solid

synonym : enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

fuel

n. a substance that is typically burned to generate heat or energy

synonym : energy, power, gas

(1) biomass **fuel**, (2) smokeless **fuel**

The **fuel** scarcity most severely impacted the manufacturing sector

catastrophe

n. a sudden event that causes extreme ruin and misfortune

synonym : disaster, calamity, cataclysm

(1) **catastrophe** risk management, (2) avoid climate **catastrophe**

The lack of funds has resulted in a **catastrophe** for our university system.

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.

abandon

v. to leave a place, thing, or person with no intention of returning; (noun) a feeling of extreme emotional intensity

synonym : relinquish, leave behind, disregard

(1) **abandon** a friend, (2) **abandon** the practice

The castle was **abandoned** several years later.

exciting

adj. causing a lot of interest or excitement

synonym : exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

elevator

n. a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors

synonym: lift, hoist

(1) **elevator** ride, (2) modern **elevator**

The hotel's **elevator** was out of order, so we had to take the stairs to our room on the fifth floor.

thrill

n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion

synonym: exhilaration, delight, rush

(1) the **thrill** of speed, (2) incredible **thrill**

Skydiving is an overwhelming **thrill** for many people.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on

synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

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.

payload

n. the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted

over a communication system

synonym: cargo, freight, shipment

(1) **payload** capacity, (2) satellite **payload**

The **payload** for the rocket launch included several satellites and scientific instruments.

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.

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**.

conventional

adj. based on or following traditional rules, standards, customs, etc.

synonym: ancestral, customary, established

(1) a **conventional** style, (2) get a **conventional** loan

She is very **conventional** in her thoughts.

falcon

n. a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight

synonym: hawk, eagle, kestrel

(1) **falcon** feathers, (2) peregrine **falcon**

The **falcon's** keen eyesight makes it an excellent hunter.

gram

n. a metric unit of weight equal to one-thousandth of a kilogram

(1) centimeter- **gram-second** system, (2) **gram** amount

How much is it per one hundred **grams**?

cargo

n. the goods carried by ship, aircraft, or other vehicles
synonym: shipment, freight, burden

(1) plenty of **cargo** space, (2) unload the **cargo**

During the war, many **cargo** ships were converted into battleships.

roughly

adv. approximately but not precisely; with a violent manner
synonym: approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking

Five miles is **roughly** similar to eight kilometers.

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.

inspire

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

synonym: boost, encourage, enlighten

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

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

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.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

alternative

n. one of two or more available possibilities or choice
synonym : choice, option

(1) an **alternative** plan, (2) there is no other **alternative**
Doctors are gradually coming around to the idea of using **alternative** medicines.

hop

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

synonym : jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another
The rabbit **hopped** over the fence.

spinning

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

synonym : whirling, rotating, spinning wheel

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

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

carousel

n. a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats

synonym : merry-go-round, roundabout, whirligig

(1) baggage claim **carousel**, (2) children's **carousel**

The **carousel** operator made sure each child was safely seated before starting the ride

attach

v. to fasten, join, or connect one thing to another

synonym : fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

horizontal

adj. parallel to the ground or in a baseline; being at the same level as all members of a group

synonym : even, lying, parallel

(1) **horizontal** lines, (2) **horizontal** stripes

Airplanes need **horizontal** tails to improve stability.

aloft

adv. in the air; at a high place

synonym : elevated, high, soaring

(1) go **aloft**, (2) carried **aloft** by police

The hot air balloon rose **aloft** into the sky, giving the passengers a breathtaking countryside view.

centrifugal

adj. tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea

synonym : outward, diverging, radiating

(1) **centrifugal** acceleration, (2) **centrifugal** casting

The **centrifugal** force of the spinning ride caused my hair to fly in all directions.

apparent

adj. able to see or understand easily or clearly

synonym : obvious, clear, conspicuous

(1) heir **apparent**, (2) **apparent** contradiction

This star is **apparent** to the naked eye.

inert

adj. lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive

synonym : motionless, inactive, dormant

(1) **inert** gases, (2) **inert** ingredients

The rock was completely **inert** and didn't react when we tried to break it open.

acceleration

n. a rate of increase in velocity; the rate of change of velocity with respect to time

synonym : speed up, quicken, hastening

(1) a unit of **acceleration**, (2) **acceleration** of an object

The car's **acceleration** was impressive, going from 0 to 60 mph in just 5 seconds.

- rot** v. to decay, or cause something to decay, naturally and gradually
synonym : perish, decay, corrode
(1) begin to **rot**, (2) **rot** with age
Please refrigerate the meat, or it will **rot**.
- replace** v. to take the place of something
synonym : substitute, supersede, displace
(1) **replace** one word with another, (2) **replace** a phone
Eventually, the new design will **replace** all older models.
- tether** v. to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
synonym : tie, fasten, secure
(1) **tether** a horse, (2) **tether** strap
The hiker **tethered** their dog to a tree while they camped for the night.
- counterweight** n. a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage
synonym : balance, counterbalance, counterpoise
(1) **counterweight** system, (2) **counterweight** balance
The **counterweight** on the suspension bridge helped keep it stable during windy conditions.
- envision** v. to imagine or expect what a situation will be like in the future
synonym : anticipate, foresee, picture
(1) **envision** the future, (2) **envision** the project's success
We cannot **envision** her as President.
- modern** *adj.* of or belonging to the present time or recent times
synonym : contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society
Their headquarters are in a **modern** skyscraper.

cable

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

synonym: wire, cord, rope

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

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

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.

generate

v. to produce or create something; to make offspring by reproduction

synonym: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month

The economic stimulation program would **generate** a lot of new jobs.

spin

v. to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented

synonym: rotate, twirl, swirl

(1) **spin** a top, (2) **spin** thread out of cotton

The tornado is **spinning** across the countryside, destroying everything in its path.

gravitational

adj. relating to or caused by gravity (= the force that attracts objects towards one another)

synonym: weighty, heavy, earthbound

(1) **gravitational** energy, (2) **gravitational** waves

The **gravitational** force of the black hole was so strong that nothing, not even light, could escape.

balance

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

synonym: equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

distance

n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

synonym: space, gap, span

(1) driving **distance**, (2) social **distance**

The marathon runner covered a long **distance** in a short amount of time.

geostationary

n. describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator

synonym: fixed, stationary, orbiting

(1) **geostationary** orbit, (2) **geostationary** position

The **geostationary** satellite remained in a fixed position in the sky.

revolve

v. to rotate around a central point

synonym: rotate, spin, orbit

(1) **revolve** at high speed, (2) **revolve** around a central axis

The Earth **revolves** around the Sun in an elliptical orbit.

motionless

adj. without movement or motion; completely still

synonym: still, immobile, static

(1) **motionless** figure, (2) **motionless** body

The wounded soldier lay **motionless** on the battlefield

waiting for medical attention.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym: catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts
I was able to **capture** the moment on film.

asteroid

n. a small rocky body orbiting the sun, typically in the region between Mars and Jupiter

synonym: minor planet, planetoid, rocky planetesimal

(1) **asteroid** mining, (2) **asteroid** explorer

Scientists are studying the composition and origins of the **asteroid** belt to understand the early solar system better.

release

v. to set free or allow to escape from confinement

synonym: free, let go, discharge

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

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

atmosphere

n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

synonym: air, ambiance, circumstances

(1) carbon dioxide in the **atmosphere**, (2) a convivial **atmosphere**

The spaceship began to burn up as it approached the Earth's **atmosphere**.

maximum

adj. the largest or greatest amount or value attainable or attained

synonym: peak, top, highest

(1) **maximum** limit, (2) the **maximum** speed

The **maximum** temperature recorded this summer was higher than average.

anchor

n. a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability

synonym: mainstay, ballast, backbone

(1) **anchor** bolt, (2) **anchor** weight

The ship dropped **anchor** in the bay.

equator

n. an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

(1) south of the **equator**, (2) above the **equator**

Ecuador is on the **equator**.

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.

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.

dodge

v. to move quickly and suddenly to avoid something; to evade or sidestep

synonym: evade, sidestep, avoid

(1) **dodge** a blow, (2) **dodge** a question

She had to **dodge** the oncoming traffic to cross the busy street safely.

debris

n. broken or torn fragments of something

synonym: remains, remnants, garbage

(1) space **debris**, (2) pile of **debris**

Marine **debris** is a major continuous global problem.

satellite

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

synonym : orbiter, asteroid, moon

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

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

device

- n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

- (1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

mechanism

- n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym : means, method, system

- (1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

electrify

- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym : wire, amaze, astonish

- (1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

panel

- n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a

small group of specialists who discuss particular topics or give their advice or opinion about something

synonym : board, commission, discussion

(1) **panel** discussion, (2) cost of solar **panels**

A **panel** of economic advisers from the United States visited the country to help rebuild its economy.

nuclear

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

synonym : atomic

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

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

estimate

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

synonym : calculate, gauge, evaluate

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

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

elevate

v. to raise something from a lower to a higher position; to give a promotion to or assign to a higher position

synonym : lift, heighten, promote

(1) **elevate** educational standards, (2) **elevate** a close relationship

Eating food in a hurry **elevates** blood glucose levels.

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.

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.

theoretical

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

synonym : conceptual, conjectural, ideal

(1) **theoretical** models, (2) **theoretical** physicist
Absolute zero is the lowest **theoretical** temperature.

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.

accident

n. an unfortunate event, especially one causing damage or injury

synonym : calamity, casualty, chance

(1) cause an **accident**, (2) injury in a car **accident**
The **accident** partially destroyed my vehicle.

catastrophic

adj. extremely harmful; causing physical or financial destruction

synonym : fatal, disastrous, destructive

(1) victim of **catastrophic** injuries, (2) **catastrophic** climate change

The extinction rate of aquatic animals was **catastrophic**.

addition

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

synonym : accumulation, expansion, addendum

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

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

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.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym : heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

vary

v. to become different in terms of size, shape, etc.

synonym : alter, contrast, differ

(1) **vary** according to the age, (2) **vary** directly with the price

Maximum heart rates **vary** a lot for each individual.

strength

n. the quality or state of being physically, or sometimes mentally, strong

synonym : resilience, power, muscles

(1) **strength** of the economy, (2) muscular **strength**

Health and **strength** are, above all, gold.

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.

nanotube

n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers;

nanotubes are used in a variety of applications, including electronics and materials science

(1) **nanotube** technology, (2) metallic **nanotube**

Carbon **nanotubes** are used in various fields of science and technology due to their unique properties.

diamond

n. a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond

synonym: gemstone, jewel, precious stone

(1) **diamond** ring, (2) **diamond** necklace

The engagement ring was adorned with a large, sparkling **diamond**.

thread

n. a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching

synonym: filament, string, yarn

(1) **thread** a catheter, (2) start a new **thread**

The detective followed a **thread** of clues which ultimately led to the suspect's arrest.

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.

chain

n. a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle

synonym: series, string, link

(1) **chain** reaction, (2) supply **chain**

The **chain** on my bike broke, leaving me stranded.

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.

economy

n. the system by which a country or region produces, manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

synonym: finance, trade, business

(1) **economy** of scale, (2) **economy** class

The **economy** of the country is struggling due to the recent political instability.

advantage

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

synonym: benefit, edge, asset

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

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

numerous

adj. amounting to a large indefinite number

synonym: many, considerable, countless

(1) **numerous** countries, (2) as **numerous** as the sand

These descriptions are based on a number of **numerous** assumptions.

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along

which it has separated without breaking

synonym: snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

conundrum

n. a confusing and difficult problem or question

synonym: puzzle, riddle, enigma

(1) **conundrum** of choice, (2) pose a **conundrum**

The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

Session 2: Spelling

1. victim of cat_____hic injuries *adj.* extremely harmful; causing physical or financial destruction
2. electromagnetic ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
3. co_____um of choice *n.* a confusing and difficult problem or question
4. ab_____n a friend *v.* to leave a place, thing, or person with no intention of returning; (noun) a feeling of extreme emotional intensity
5. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
6. pl____t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
7. s____n thread out of cotton *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
8. th____d a catheter *n.* a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching

ANSWERS: 1. catastrophic, 2. radiation, 3. conundrum, 4. abandon, 5. structure, 6.

planet, 7. spin, 8. thread

9. at___h firmly *v.* to fasten, join, or connect one thing to another
10. re_____e at high speed *v.* to rotate around a central point
11. hor_____al stripes *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
12. an___r bolt *n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
13. small sa_____ce for a great cause *n.* the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important
14. re_____e a prisoner *v.* to set free or allow to escape from confinement
15. an alt_____ve plan *n.* one of two or more available possibilities or choice
16. geo_____ary orbit *n.* describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator
17. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
18. el_____e educational standards *v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position

ANSWERS: 9. attach, 10. revolve, 11. horizontal, 12. anchor, 13. sacrifice, 14. release, 15. alternative, 16. geostationary, 17. transport, 18. elevate

19. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
20. ec_____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
21. biomass f__l *n.* a substance that is typically burned to generate heat or energy
22. south of the eq_____r *n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
23. eq__p our children with some special skills *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
24. di_____d ring *n.* a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond
25. injury in a car ac_____nt *n.* an unfortunate event, especially one causing damage or injury
26. geo_____ary position *n.* describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator

ANSWERS: 19. gravitational, 20. economy, 21. fuel, 22. equator, 23. equip, 24. diamond, 25. accident, 26. geostationary

27. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
28. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
29. incredible th___l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
30. save the pl___t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
31. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
32. access to public tr____rt *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
33. in_____e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
34. sp_____ng machine *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
35. coaxial ca__e *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire

ANSWERS: 27. manufacture, 28. hop, 29. thrill, 30. planet, 31. crack, 32. transport, 33. inspire, 34. spinning, 35. cable

36. a sh___d for protecting against a bullet
n. a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
37. el_____fy a manufacturing process
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
38. ca___n emission
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
39. nuclear ph_____s
n. the science of matter and energy and their interactions
40. eq__p an army
v. to provide a person or a place with the things that are needed for a particular purpose or activity
41. re_____e around a central axis
v. to rotate around a central point
42. less fo_____te person
adj. having good luck or lucky
43. defense me_____sm
n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
44. en_____on the project's success
v. to imagine or expect what a situation will be like in the future
45. ap_____nt contradiction
adj. able to see or understand easily or clearly
46. preserve my gr_____y
n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

ANSWERS: 36. shield, 37. electrify, 38. carbon, 39. physics, 40. equip, 41. revolve, 42. fortunate, 43. mechanism, 44. envision, 45. apparent, 46. gravity

47. made a great ma_____er *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
48. inv_____te the matter *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
49. te____r strap *v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
50. a heat sh____d *n.* a protective covering or structure, especially in the past, that soldiers held in front of their bodies to protect themselves
51. mo____n poetry *adj.* of or belonging to the present time or recent times
52. use of nu_____r power *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
53. ro____t fuel *n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon
54. cat_____he risk management *n.* a sudden event that causes extreme ruin and misfortune

ANSWERS: 47. maneuver, 48. investigate, 49. tether, 50. shield, 51. modern, 52. nuclear, 53. rocket, 54. catastrophe

55. as____id explorer *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
56. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
57. fa____n feathers *n.* a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight
58. get a con____nal loan *adj.* based on or following traditional rules, standards, customs, etc.
59. ma____e amounts *adj.* enormous amount; very heavy and solid
60. el____e a close relationship *v.* to raise something from a lower to a higher position; to give a promotion to or assign to a higher position
61. take ad____ge of his weak points *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
62. ec____y class *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
63. as____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere

ANSWERS: 55. asteroid, 56. addition, 57. falcon, 58. conventional, 59. massive, 60. elevate, 61. advantage, 62. economy, 63. astronaut

64. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
65. en_____on the future *v.* to imagine or expect what a situation will be like in the future
66. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
67. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
68. modern el_____or *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
69. ch___n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
70. pa___l discussion *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
71. m_r a proper relationship *v.* to damage or spoil the appearance or surface of something
72. re_____e CO2 into the air *v.* to set free or allow to escape from confinement

ANSWERS: 64. device, 65. envision, 66. manufacture, 67. electrify, 68. elevator, 69. chain, 70. panel, 71. mar, 72. release

73. pa____d capacity *n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system
74. mot_____ss body *adj.* without movement or motion; completely still
75. st____th of the economy *n.* the quality or state of being physically, or sometimes mentally, strong
76. carried al__t by police *adv.* in the air; at a high place
77. as nu____us as the sand *adj.* amounting to a large indefinite number
78. as____id mining *n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
79. political ma_____ers *n.* a motion or combination of moves that requires skill and care; a clever strategy, activity, or movement intended to give someone an advantage
80. acc_____ion of an object *n.* a rate of increase in velocity; the rate of change of velocity with respect to time
81. di____d necklace *n.* a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond
82. re____e one word with another *v.* to take the place of something
83. an____r weight *n.* a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability

ANSWERS: 73. payload, 74. motionless, 75. strength, 76. aloft, 77. numerous, 78. asteroid, 79. maneuver, 80. acceleration, 81. diamond, 82. replace, 83. anchor

84. satellite pa____d *n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system
85. laws of ph____s *n.* the science of matter and energy and their interactions
86. metallic na____be *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
87. go al__t *adv.* in the air; at a high place
88. above the eq____r *n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)
89. pile of de____s *n.* broken or torn fragments of something
90. nu____r fusion *adj.* of or relating to or constituting the nucleus of an atom; deriving destructive energy from the release of atomic energy
91. centimeter-g__m-second system *n.* a metric unit of weight equal to one-thousandth of a kilogram
92. driving di____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance

ANSWERS: 84. payload, 85. physics, 86. nanotube, 87. aloft, 88. equator, 89. debris, 90. nuclear, 91. gram, 92. distance

93. m_r the reputation *v.* to damage or spoil the appearance or surface of something
94. a meteorological sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
95. cou_____ght balance *n.* a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage
96. a planetary or__t *n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
97. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
98. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
99. ex_____e sports *adj.* very great in amount or degree
100. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
101. ma_____m limit *adj.* the largest or greatest amount or value attainable or attained
102. ca_____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape

ANSWERS: 93. mar, 94. satellite, 95. counterweight, 96. orbit, 97. chain, 98. roughly, 99. extreme, 100. construct, 101. maximum, 102. capture

103. v__y directly with the price
104. the_____al physicist
105. cause an ac_____nt
106. es_____te this chicken to weigh three pounds
107. na_____be technology
108. the or__t of the moon
109. children's ca_____el
110. in_____e a feeling of curiosity
111. ab_____n the practice
- v. to become different in terms of size, shape, etc.
- adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
- n.* an unfortunate event, especially one causing damage or injury
- v. to guess or calculate the cost, size, value, etc. of something
- n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
- n.* the path of an object around a celestial body, especially a planet, star, or moon, under the influence of gravity.
- n.* a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats
- v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
- v. to leave a place, thing, or person with no intention of returning; (noun) a feeling of extreme emotional intensity

ANSWERS: 103. vary, 104. theoretical, 105. accident, 106. estimate, 107. nanotube, 108. orbit, 109. carousel, 110. inspire, 111. abandon

112. plenty of ca__o space *n.* the goods carried by ship, aircraft, or other vehicles
113. pose a co_____um *n.* a confusing and difficult problem or question
114. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
115. peregrine fa___n *n.* a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight
116. ex_____e weather events *adj.* very great in amount or degree
117. cen_____al acceleration *adj.* tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea
118. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
119. sa_____ce anything to get ahead *n.* the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important
120. space de___s *n.* broken or torn fragments of something
121. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 112. cargo, 113. conundrum, 114. astronaut, 115. falcon, 116. extreme, 117. centrifugal, 118. estimate, 119. sacrifice, 120. debris, 121. addition

122. a convivial atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
123. cou_____ght system *n.* a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage
124. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
125. smokeless f___l *n.* a substance that is typically burned to generate heat or energy
126. muscular st_____th *n.* the quality or state of being physically, or sometimes mentally, strong
127. fo_____te situation *adj.* having good luck or lucky
128. ge_____te more electricity *v.* to produce or create something; to make offspring by reproduction
129. the attraction of gr_____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
130. score an ad_____ge *n.* a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
131. the th_____l of speed *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion

ANSWERS: 122. atmosphere, 123. counterweight, 124. engineer, 125. fuel, 126. strength, 127. fortunate, 128. generate, 129. gravity, 130. advantage, 131. thrill

132. a con_____nal style *adj.* based on or following traditional rules, standards, customs, etc.
133. ca___n dioxide *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
134. cen_____al casting *adj.* tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea
135. start a new th___d *n.* a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching
136. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
137. in__t ingredients *adj.* lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
138. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

ANSWERS: 132. conventional, 133. carbon, 134. centrifugal, 135. thread, 136. capture, 137. inert, 138. radiation

139. s__n a top *v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented
140. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
141. social di_____ce *n.* the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
142. mot_____ss figure *adj.* without movement or motion; completely still
143. cost of solar pa__ls *n.* a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something
144. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
145. ma_____e stars *adj.* enormous amount; very heavy and solid
146. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
147. heir ap_____nt *adj.* able to see or understand easily or clearly
148. el_____or ride *n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors

ANSWERS: 139. spin, 140. construct, 141. distance, 142. motionless, 143. panel, 144. rot, 145. massive, 146. engineer, 147. apparent, 148. elevator

149. ex____ng football player *adj.* causing a lot of interest or excitement
150. asset on the company's ba____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
151. a GPS sa____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
152. ro____t attack against the enemy *n.* a large tube-shaped object that moves very first by a stream of gases let out behind it, used for space travel or as a weapon
153. do__e a blow *v.* to move quickly and suddenly to avoid something; to evade or sidestep
154. te____r a horse *v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
155. at____h a file to an e-mail *v.* to fasten, join, or connect one thing to another
156. carbon dioxide in the atm____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
157. pre-mo____n agricultural society *adj.* of or belonging to the present time or recent times
158. unload the ca__o *n.* the goods carried by ship, aircraft, or other vehicles

ANSWERS: 149. exciting, 150. balance, 151. satellite, 152. rocket, 153. dodge, 154. tether, 155. attach, 156. atmosphere, 157. modern, 158. cargo

159. re_____e a phone *v.* to take the place of something
160. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
161. ro_____y speaking *adv.* approximately but not precisely; with a violent manner
162. electronic de_____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
163. h_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
164. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
165. g__m amount *n.* a metric unit of weight equal to one-thousandth of a kilogram
166. wi_____nd pressure *v.* to resist the effect or impact of something
167. inv_____te a data leak *v.* to conduct a systematic or formal inquiry to identify and evaluate the facts of a crime, problem, statement, etc. to establish the truth
168. baggage claim ca_____el *n.* a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats

ANSWERS: 159. replace, 160. mechanism, 161. roughly, 162. device, 163. hop, 164. gravitational, 165. gram, 166. withstand, 167. investigate, 168. carousel

169. ge_____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
170. ex_____ng news *adj.* causing a lot of interest or excitement
171. there is no other alt_____ve *n.* one of two or more available possibilities or choice
172. the_____al models *adj.* relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience
173. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
174. nu_____us countries *adj.* amounting to a large indefinite number
175. do__e a question *v.* to move quickly and suddenly to avoid something; to evade or sidestep
176. the ma_____m speed *adj.* the largest or greatest amount or value attainable or attained
177. sp_____ng wheel *n.* the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
178. v__y according to the age *v.* to become different in terms of size, shape, etc.
179. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
180. wi_____nd temptation *v.* to resist the effect or impact of something

ANSWERS: 169. generate, 170. exciting, 171. alternative, 172. theoretical, 173. crack, 174. numerous, 175. dodge, 176. maximum, 177. spinning, 178. vary, 179. rot, 180. withstand

181. a unit of acc_____ion *n.* a rate of increase in velocity; the rate of change of velocity with respect to time
182. hor_____al lines *adj.* parallel to the ground or in a baseline; being at the same level as all members of a group
183. avoid climate cat_____he *n.* a sudden event that causes extreme ruin and misfortune
184. ca__e television *n.* a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
185. the ba_____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
186. cat_____hic climate change *adj.* extremely harmful; causing physical or financial destruction
187. in__t gases *adj.* lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
188. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 181. acceleration, 182. horizontal, 183. catastrophe, 184. cable, 185. balance, 186. catastrophic, 187. inert, 188. structure

Session 3: Fill in the Blanks

1. The spaceship began to burn up as it approached the Earth's _____.
n. the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work

2. Eating food in a hurry _____ blood glucose levels.
v. to raise something from a lower to a higher position; to give a promotion to or assign to a higher position

3. We _____ the season's total trade deficit at \$50 billion.
v. to guess or calculate the cost, size, value, etc. of something

4. The Earth _____ around the Sun in an elliptical orbit.
v. to rotate around a central point

5. The economic stimulation program would _____ a lot of new jobs.
v. to produce or create something; to make offspring by reproduction

6. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid

7. The new phone is waterproof and can _____ being dropped in water.
v. to resist the effect or impact of something

8. The unique style of this martial arts _____ many action film producers.
v. to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative

ANSWERS: 1. atmosphere, 2. elevates, 3. estimated, 4. revolves, 5. generate, 6. massive, 7. withstand, 8. inspired

9. The rabbit _____ over the fence.
v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
10. 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
11. One of the main _____ of the new product is its increased efficiency.
n. a condition or circumstance that puts one in a favorable or superior position; a beneficial feature or asset that someone or something has
12. The car's _____ was impressive, going from 0 to 60 mph in just 5 seconds.
n. a rate of increase in velocity; the rate of change of velocity with respect to time
13. Skydiving is an overwhelming _____ for many people.
n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
14. The marathon runner covered a long _____ in a short amount of time.
n. the amount of space between two points, measured in units such as miles, meters, or kilometers; the extent, scope, or range between two things, such as distance or emotional distance
15. She is very _____ in her thoughts.
adj. based on or following traditional rules, standards, customs, etc.
16. The _____ keen eyesight makes it an excellent hunter.
n. a bird of prey characterized by its sharp talons and hooked beak; typically having a long tail and wingspan and known for its swift and agile flight

ANSWERS: 9. hopped, 10. structure, 11. advantages, 12. acceleration, 13. thrill, 14. distance, 15. conventional, 16. falcon's

17. Health and _____ are, above all, gold.
n. the quality or state of being physically, or sometimes mentally, strong
18. The lack of funds has resulted in a _____ for our university system.
n. a sudden event that causes extreme ruin and misfortune
19. I was able to _____ the moment on film.
v. to catch a person or an animal and confine them in an area which they cannot escape
20. The _____ operator made sure each child was safely seated before starting the ride
n. a rotating platform, often used for amusement or entertainment, adorned with horses or other animals or vehicles for people to ride; a slideshow or display of images or information that cycles or repeats
21. Five miles is _____ similar to eight kilometers.
adv. approximately but not precisely; with a violent manner
22. The wounded soldier lay _____ on the battlefield waiting for medical attention.
adj. without movement or motion; completely still
23. The ship dropped _____ in the bay.
n. a device, typically made of metal, that is used to moor a ship or boat in a particular place, typically by being dropped to the seabed; a central cohesive source of support and stability
24. You cannot accomplish great things without a _____ of your time or money.
n. the act of killing an animal or person or surrendering a possession as an offering to a deity; (verb) to give up something important or valuable to help another person or get or do something that seems more important

ANSWERS: 17. strength, 18. catastrophe, 19. capture, 20. carousel, 21. roughly, 22. motionless, 23. anchor, 24. sacrifice

25. The majority of synthetic vitamins are _____ from oil.
- v. to make goods in large numbers, usually in a factory using machines
26. The _____ partially destroyed my vehicle.
- n. an unfortunate event, especially one causing damage or injury
27. The detective followed a _____ of clues which ultimately led to the suspect's arrest.
- n. a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching
28. The hiker _____ their dog to a tree while they camped for the night.
- v. to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
29. Marine _____ is a major continuous global problem.
- n. broken or torn fragments of something
30. She had to _____ the oncoming traffic to cross the busy street safely.
- v. to move quickly and suddenly to avoid something; to evade or sidestep
31. Eventually, the new design will _____ all older models.
- v. to take the place of something
32. He discovered unique _____ for photochemical reactions.
- n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 25. manufactured, 26. accident, 27. thread, 28. tethered, 29. debris, 30. dodge, 31. replace, 32. mechanisms

33. Their headquarters are in a _____ skyscraper.

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

34. He was pretty _____ to pass the exam.

adj. having good luck or lucky

35. A _____ of economic advisers from the United States visited the country to help rebuild its economy.

n. a square or rectangular and flat piece of something that forms a distinct section or component of something; a small group of specialists who discuss particular topics or give their advice or opinion about something

36. The engagement ring was adorned with a large, sparkling _____.

n. a precious stone made from pure carbon, typically transparent and colorless but possibly tinted in various colors; a shape or arrangement resembling the geometric form of a diamond

37. 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.

38. Absolute zero is the lowest _____ temperature.

adj. relating to the concepts and principles upon which a particular topic is founded, rather than practice and experience

39. How much is it per one hundred _____

n. a metric unit of weight equal to one-thousandth of a kilogram

40. Please refrigerate the meat, or it will _____.

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

ANSWERS: 33. modern, 34. fortunate, 35. panel, 36. diamond, 37. orbit, 38. theoretical, 39. grams?, 40. rot

41. Doctors are gradually coming around to the idea of using _____ medicines.
n. one of two or more available possibilities or choice
42. The hot air balloon rose _____ into the sky, giving the passengers a breathtaking countryside view.
adv. in the air; at a high place
43. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
44. He that would eat the kernel must _____ the nut.
v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
45. The scratches on the car _____ its otherwise perfect appearance.
v. to damage or spoil the appearance or surface of something
46. The extinction rate of aquatic animals was _____.
adj. extremely harmful; causing physical or financial destruction
47. Try to keep a _____ between work and off.
n. a condition in which everything has the same weight or force; something left after other parts have been taken away
48. The construction company _____ the building with an earthquake-resistant device.
v. to provide a person or a place with the things that are needed for a particular purpose or activity

ANSWERS: 41. alternative, 42. aloft, 43. exciting, 44. crack, 45. marred, 46. catastrophic, 47. balance, 48. equipped

49. The _____ for the rocket launch included several satellites and scientific instruments.
- n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system
50. The hotel's _____ was out of order, so we had to take the stairs to our room on the fifth floor.
- n.* a mechanical device used for vertical transportation, typically in multi-story buildings, consisting of a compartmentalized platform that moves between floors
51. We cannot _____ her as President.
- v.* to imagine or expect what a situation will be like in the future
52. The product developed through years of research continues to _____ the market.
- v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
53. 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
54. The _____ on my bike broke, leaving me stranded.
- n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
55. The _____ satellite remained in a fixed position in the sky.
- n.* describes a satellite that revolves around the Earth in a fixed position about the planet's rotation; remaining above the same point on the equator

ANSWERS: 49. payload, 50. elevator, 51. envision, 52. electrify, 53. astronaut, 54. chain, 55. geostationary

56. 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
57. The _____ scarcity most severely impacted the manufacturing sector
n. a substance that is typically burned to generate heat or energy
58. The rock was completely _____ and didn't react when we tried to break it open.
adj. lacking the ability to move or act, often used to describe an object or substance that is inactive or non-reactive
59. During the war, many _____ ships were converted into battleships.
n. the goods carried by ship, aircraft, or other vehicles
60. Launching an artificial _____ contributed to the technological development of our country.
n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
61. He studied the _____ of radiation.
n. the science of matter and energy and their interactions
62. Airplanes need _____ tails to improve stability.
adj. parallel to the ground or in a baseline; being at the same level as all members of a group
63. The _____ on the suspension bridge helped keep it stable during windy conditions.
n. a weight that balances or opposes another weight to achieve stability or equilibrium; a weight that is used to offset the weight of another object or to provide mechanical advantage

ANSWERS: 56. maneuver, 57. fuel, 58. inert, 59. cargo, 60. satellite, 61. physics, 62. horizontal, 63. counterweight

64. These descriptions are based on a number of _____ assumptions.

adj. amounting to a large indefinite number

65. The _____ force of the spinning ride caused my hair to fly in all directions.

adj. tending or acting to move away from a center; relating to or operating by means of this force; deviating or diverging from a common point or central idea

66. He does not _____ importance to these rumors.

v. to fasten, join, or connect one thing to another

67. This star is _____ to the naked eye.

adj. able to see or understand easily or clearly

68. Maximum heart rates _____ a lot for each individual.

v. to become different in terms of size, shape, etc.

69. The animal rights group worked to _____ the dolphins back into the wild.

v. to set free or allow to escape from confinement

70. The _____ of the country is struggling due to the recent political instability.

n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

71. 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: 64. numerous, 65. centrifugal, 66. attach, 67. apparent, 68. vary, 69. release, 70. economy, 71. shield

72. Ecuador is on the _____.

- n.* an line of latitude that separates Earth's northern and southern hemispheres and has a radius of around 40,075 kilometers (24,901 miles)

73. The _____ will repair my telephone tomorrow morning.

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

74. 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

75. Enhanced rail _____ is crucial for our business.

- n.* a system for moving people or products from one location to another using automobiles, roads, and so on

76. The tornado is _____ across the countryside, destroying everything in its path.

- v.* to cause something to rotate rapidly; to cause someone to feel dizzy or disoriented

77. I always carry a backup _____ in case my phone runs out of battery.

- n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

78. Many countries have now agreed to a treaty banning the use of _____ weapons.

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

ANSWERS: 72. equator, 73. engineer, 74. radiation, 75. transportation, 76. spinning, 77. device, 78. nuclear

79. 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
80. She took a _____ class at the gym to improve her cardiovascular fitness.
n. the act of rotating rapidly around an axis; in the context of textiles, the process of twisting fibers together to form thread or yarn
81. Carbon _____ are used in various fields of science and technology due to their unique properties.
n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
82. This system uses submarine _____ to exchange information between continents.
n. a set of wires covered by plastic or rubber that carries electricity, phone signals, etc.; a solid thick rope made of twisted hemp or steel wire
83. Solar gravity creates _____ pressures and temperatures.
adj. very great in amount or degree
84. The _____ temperature recorded this summer was higher than average.
adj. the largest or greatest amount or value attainable or attained
85. The group faced a _____ when they couldn't decide whether to go hiking or to the beach.
n. a confusing and difficult problem or question
86. Mercury is the closest _____ to the sun.
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

ANSWERS: 79. constructs, 80. spinning, 81. nanotubes, 82. cables, 83. extreme, 84. maximum, 85. conundrum, 86. planet

87. Scientists are studying the composition and origins of the _____ belt to understand the early solar system better.
- n.* a small rocky body orbiting the sun, typically in the region between Mars and Jupiter
88. 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
89. 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
90. The _____ launch platform is visible from this hill.
- n.* a large tube-shaped object that moves very fast by a stream of gases let out behind it, used for space travel or as a weapon
91. The castle was _____ several years later.
- v.* to leave a place, thing, or person with no intention of returning; (noun) a feeling of extreme emotional intensity
92. The astronaut felt weightless in space due to the absence of _____.
- n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
93. The _____ force of the black hole was so strong that nothing, not even light, could escape.
- adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 87. asteroid, 88. investigated, 89. carbon, 90. rocket, 91. abandoned, 92. gravity, 93. gravitational

94. In _____ private corporations provide healthcare services.

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

ANSWERS: 94. addition,