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Vocabulary Builder Reference from...

Richard Browning: How do jetpacks work? And why don't we all have them? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

cosmonaut

n. a Russian astronaut or space traveler; a person trained to travel and work in space, particularly as part of the Soviet or Russian space program

synonym: astronaut, spacefarer, space traveler

(1) **cosmonaut** training, (2) female **cosmonaut**

Soviet **cosmonauts** like Gagarin and Leonov were celebrated as national heroes.

pilot

n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

synonym: aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

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**?

spacecraft

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

synonym: spaceship, satellite, probe

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

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

flee

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

synonym: exit, escape, run away

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

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

debut

n. the first public performance of an artist or actor

synonym: introduction, launching, premiere

(1) **debut** on national TV, (2) **debut** performance

The **debut** album of the band was a success.

advancement

n. the development, improvement, or progress of something

synonym: progression, breakthrough, improvement

(1) **advancement** of knowledge, (2) career **advancement**

Competition between countries resulted in fast technological **advancement**.

aviation

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

synonym: flying, flight, aeronautics

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

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

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.

capable

adj. having the ability, skill, or potential to do something; competent or proficient in a particular task or area of

expertise

synonym : able, competent, proficient

(1) **capable** worker, (2) **capable** leader

She is highly **capable** of handling multiple tasks at once.

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.

onlooker

n. a person who watches an event or situation without directly participating, often as a spectator or bystander

synonym : bystander, spectator, watcher

(1) curious **onlooker**, (2) spectating **onlooker**

Many **onlookers** gathered at the beach to witness the rare sea turtle hatching.

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.

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.

enthuse

v. to express enthusiastic approval or appreciation for something; to become highly interested or excited about something

synonym : excite, thrill, inspire

(1) **enthuse** with energy, (2) **enthuse** over her performance
The company's CEO's enthusiasm for the new product line **enthused** the entire staff.

cutting-edge

adj. being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

synonym: state-of-the-art, innovative, advanced

(1) **cutting-edge** molecular biology, (2) **cutting-edge** design

The **cutting-edge** technology was revolutionary in its field.

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.

accord

n. an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have

synonym: alliance, pact, agreement

(1) **accord** with public opinion, (2) binational **accord**

The organization finally signed a peace **accord**.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

physics

n. the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

upward

adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

synonym : skyward, uphill

(1) look **upward**, (2) demonstrate an **upward** trend

The company adjusted the revenue **upward**.

counteract

v. to act against something to reduce its bad or harmful effects or neutralize it

synonym : balance, offset, compensate

(1) **counteract** the effect of poison, (2) **counteract** global warming

Our body's immune system produces antibodies to **counteract** disease.

downward

adj. moving towards a lower position or a lower level

synonym : lower, earthward, descending

(1) a **downward** slope, (2) maintain **downward** compatibility

The stock market has been in a **downward** trend for the past month.

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**.

mass

n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

synonym : abundance, crowd, mob

(1) a **mass** of molten rock, (2) critical **mass**

The **mass** of people who do not own property is politically impotent.

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.

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.

jet

n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

synonym : plane, aircraft, flier

(1) private **jet**, (2) commercial **jet**

The **jet** flew over the ocean at high speed, reaching its destination in hours.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym : motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

efficient

adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials

synonym : productive, effective, competent

(1) **efficient** operation, (2) energy- **efficient** appliances

The new washing machine is much more **efficient** than the old one.

volume

n. the amount of space occupied by an object or substance; the magnitude of sound

synonym: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

expel

v. to officially force someone to leave a school, organization, or country

synonym: deport, oust, dislodge

(1) **expel** him from his native country, (2) **expel** air from the lungs

He took a big drag of his cigarette and slowly **expelled** the smoke.

bypass

n. an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed;
(verb) to go past or round

(1) gastric **bypass** operation, (2) **bypass** circuit

This patient must undergo **bypass** surgery.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym: apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

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.

thrust

v. to push or drive forcibly; to impose or insert; (noun) the force used in pushing

synonym : push, shove, prod

(1) **thrust** a dagger home, (2) **thrust** a plate away

The engine **thrust** the rocket into space.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

compress

v. to press or squeeze together to make something take up less space

synonym : condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

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.

blade

n. the flat part of a knife, weapon, or machine with a very thin edge used for cutting

synonym : knife, sword, cutter

(1) a **blade** of grass, (2) the **blade** of a turbine

The **blade** of the katana itself is still in excellent condition.

combustion

n. the act or process of burning something

synonym : burning, burst

(1) internal **combustion** engine, (2) spontaneous **combustion**

Combustion of the people grew until the revolt was unavoidable.

chamber

n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament

synonym: association, cabin, legislature

(1) a gas **chamber**, (2) the lower **chamber**

The surgeon made an incision in the **chambers** of the patient's heart.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

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

ignite

v. to set on fire; to cause to start burning

synonym: light, set fire to, ignite

(1) **ignite** a boom, (2) **ignite** passion

He **ignited** the fireworks with a single spark.

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.

exhaust

n. the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired

synonym: emission, fumes, (verb) deplete

(1) **exhaust** pipe, (2) **exhaust** a topic

The factory's **exhaust** fumes polluted the air and affected the health of the nearby residents.

propel

v. to move, drive or push something forward or in a particular direction, often with a lot of force

synonym: drive, push, move

(1) **propel** growth, (2) **propel** the ship

An increase in employment helps **propel** economic growth.

turbine

n. a machine that rotates to generate power from fluids such as water or gas

synonym: engine, generator, power plant

(1) **turbine** energy, (2) **turbine** aerofoil

The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

embedded

adj. fixed firmly into the surface of something

synonym: ingrained, implanted, inserted

(1) **embedded** systems, (2) LED- **embedded** glass

The **embedded** chip in my credit card allows me to make contactless payments.

nozzle

n. a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

synonym: spout, sprayer, tube

(1) **nozzle** attachment, (2) fuel **nozzle**

The car wash **nozzle** sprayed a powerful stream of soapy water onto the vehicle.

fan

n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

synonym: lover, devotee, blade

(1) a film **fan**, (2) engine cooling **fan**

I'm a big **fan** of French food.

cycle

n. an interval during which a recurring sequence of events occurs; a bicycle or motorcycle

synonym: revolution, rotation, bike

(1) the **cycle** of the seasons, (2) go to the workplace by **cycle**

The food chain causes a material **cycle**.

maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym: preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

diameter

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym: diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

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.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

aircraft

n. any vehicle that can fly and carry things or passengers, such as a plane or helicopter

synonym: airplane, plane, airliner

(1) an **aircraft** landing, (2) **aircraft** control system

The marine **aircraft** manufacturer demonstrated their newest hydroplane.

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.

lift

v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position

synonym: raise, elevate, move up

(1) **lift** sagging skin, (2) **lift** a ban on alcohol

The drought **lifted** the prices of grain globally.

airborne

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

synonym: flying, aerial, floating

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

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

jetpack

n. a device worn on the back that propels the wearer into the air by expelling jets of gas or water

synonym: rocket belt, rocket pack, flying belt

(1) **jetpack** technology, (2) futuristic **jetpack**

The astronaut's **jetpack** allowed him to move freely in zero gravity.

millennium

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

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

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

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.

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.

compute

v. to make a mathematical calculation

synonym: calculate

(1) **compute** an average score, (2) **compute** the value

I tried to **compute** the efficiency of the investment.

injection

n. the act of introducing a liquid, especially a drug, into the body using a needle and a syringe

synonym: shot, infusion, dose

(1) fuel **injection**, (2) **injection** needle

He received an **injection** of antibiotics to treat his infection.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

precision

n. the quality or condition of being exact and accurate

synonym: accuracy, exactness, rigor

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

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

dramatically

adv. in a very impressive manner

synonym: greatly, noticeably, suddenly

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

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

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

efficiency

n. the state or quality of doing something well with no waste of input such as time or money

synonym: effectiveness, efficacy, productivity

(1) better fuel **efficiency**, (2) an energy **efficiency**

Our company must continue to strive for greater **efficiency**.

ratio

n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal

synonym: proportion, rate, quota

(1) debt-to-income **ratio**, (2) **ratio** of boys to girls

The **ratio** of water to sugar in the recipe is 1:2.

micro

n. extremely small in scale or scope; one millionth

(1) **micro** bubble, (2) **micro** force sensor

This approach employs both **micro** and macro analysis methods.

weigh

v. to have a particular weight; to carefully evaluate things before making a conclusion

synonym: consider, cogitate, count

(1) **weigh** heavily on stock prices, (2) **weigh** a cargo

The baby **weighs** 1 pound 3 oz.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym : accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

opportune

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

synonym : suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

lightweight

adj. composed of thinner and lighter material than average; not severe or impressive

(1) **lightweight** aircraft, (2) **lightweight** structure

Powder coating protects the **lightweight** aluminum alloy components.

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.

strap

n. a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport

synonym : band, belt, sling

(1) leather **strap**, (2) camera **strap**

The athlete tightened the **strap** on his running shoes before the race.

suit

n. a set of clothes that are made from the same material; a claim or complaint that a person or organization can file in court against another party; (verb) to be fit or acceptable for

synonym : clothes, lawsuit, (verb) fit

(1) **suit** and tie restaurant, (2) **suit** at law
Six **suits** are awaiting trial or verdict.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

split

v. to divide, or to make something divide into two or more parts, especially along a particular line

synonym: break, divide, break apart

(1) **split** a bill, (2) **split** a reward equally

Companies often **split** their shares to lower the stock price and encourage investors to buy.

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.

stability

n. the quality or attribute of being firm and steadfast

synonym: resilience, solidity, steadiness

(1) **stability** pact, (2) fiscal **stability** pact

The policy should increase the country's monetary **stability**.

akin

adj. similar or related in nature, character, or origin

synonym: similar, related, alike

(1) **akin** to anger, (2) **akin** to the prior experiences

Her interests are **akin** to mine.

comfort

n. a state of physical ease and freedom from pain or constraint

synonym : ease, solace, coziness

(1) words of **comfort**, (2) **comfort** level

He found **comfort** in the warm embrace of his loved ones.

lean

adj. having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

synonym : skinny, slender, (verb) slant

(1) a **lean** horse, (2) **lean** athletic figure

Lean operational improvements often lead to better environmental performance.

crutch

n. a device used to provide support or stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility

synonym : brace, support, prop

(1) **crutch** support, (2) emotional **crutch**

He walked with the aid of a **crutch** after breaking his leg in a skiing accident.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym : complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly **complicated**

He did **complicated** pen-and-ink drawings in just a few days.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym : intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

sensory

adj. of or relating to the physical senses

synonym : receptive, sensuous, neural

(1) a **sensory** organ, (2) a child with **sensory** issues

Sharks have highly developed **sensory** systems and are extremely sensitive creatures.

calibrate

v. to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance

synonym : adjust, fine-tune

(1) **calibrate** machinery, (2) **calibrate** measurements

It's important to **calibrate** the equipment regularly to ensure accurate results.

spatial

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

synonym : dimensional, geographical

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

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

orientation

n. a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment

synonym : direction, introduction, frontage

(1) sexual **orientation**, (2) the school **orientation**

There will be an **orientation** lecture for new students this afternoon.

slight

adj. very small in degree or amount

synonym : feeble, nuanced, subtle

(1) feel a **slight** concern, (2) **slight** increase

We made **slight** modifications to reflect the views of both sides.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the

process of moving or being moved, physically or figuratively

synonym : motion, progression, action

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

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

operator

n. a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

synonym : controller, handler, manipulator

(1) **operator** error, (2) an elevator **operator**

The **operator** of the machine must follow strict safety protocols.

midair

n. some point in the air; above ground level

(1) a **midair** collision, (2) thrown out into **midair**

She flawlessly performed a **midair** somersault.

glide

v. to move smoothly and effortlessly

synonym : slide, skim, coast

(1) **glide** through the water, (2) **glide** down the mountain

The eagle gracefully **glided** on the thermals, soaring above the mountains.

Session 2: Spelling

- | | |
|--------------------------------------|---|
| 1. the attraction of gr_____y | <i>n.</i> 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 |
| 2. cut_____dge molecular biology | <i>adj.</i> being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity |
| 3. global av_____on industry | <i>n.</i> the activity or process of designing, building, flying, and maintaining aircraft |
| 4. an op_____ne remark | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 5. fuel no_____e | <i>n.</i> a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun |
| 6. ro_____t attack against the enemy | <i>n.</i> 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 |
| 7. laws of ph_____s | <i>n.</i> the science of matter and energy and their interactions |
| 8. ex__l air from the lungs | <i>v.</i> to officially force someone to leave a school, organization, or country |
| 9. we__h a cargo | <i>v.</i> to have a particular weight; to carefully evaluate things before making a conclusion |

ANSWERS: 1. gravity, 2. cutting-edge, 3. aviation, 4. opportune, 5. nozzle, 6. rocket, 7. physics, 8. expel, 9. weigh

- | | |
|---|--|
| 10. a particle di_____er | <i>n.</i> the length of a straight line passing through the center of a circle and connecting two points on the circumference |
| 11. a child with se_____y issues | <i>adj.</i> of or relating to the physical senses |
| 12. ex__l him from his native country | <i>v.</i> to officially force someone to leave a school, organization, or country |
| 13. f__e their homes | <i>v.</i> to leave by running away, especially out of fear or danger |
| 14. inc_____le amount | <i>adj.</i> unbelievable; enormous |
| 15. 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 |
| 16. f__e abroad | <i>v.</i> to leave by running away, especially out of fear or danger |
| 17. mi__o bubble | <i>n.</i> extremely small in scale or scope; one millionth |
| 18. civil av_____on | <i>n.</i> the activity or process of designing, building, flying, and maintaining aircraft |
| 19. tu_____e aerofoil | <i>n.</i> a machine that rotates to generate power from fluids such as water or gas |
| 20. better fuel eff_____cy | <i>n.</i> the state or quality of doing something well with no waste of input such as time or money |
| 21. en_____e with energy | <i>v.</i> to express enthusiastic approval or appreciation for something; to become highly interested or excited about something |

ANSWERS: 10. diameter, 11. sensory, 12. expel, 13. flee, 14. incredible, 15. contribute, 16. flee, 17. micro, 18. aviation, 19. turbine, 20. efficiency, 21. enthuse

22. ad____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
23. a__n to the prior experiences *adj.* similar or related in nature, character, or origin
24. 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
25. engine cooling f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
26. look up___d *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
27. an energy eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money
28. a__n to anger *adj.* similar or related in nature, character, or origin
29. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
30. mil_____um bottle of wine *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
31. spa_____ft launch *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
32. sexual ori_____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment

ANSWERS: 22. advance, 23. akin, 24. thrill, 25. fan, 26. upward, 27. efficiency, 28. akin, 29. fuel, 30. millennium, 31. spacecraft, 32. orientation

33. debt-to-income ra__o *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
34. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
35. a private ind_____al *n.* a single person or thing, as distinct from a group
36. curious on_____er *n.* a person who watches an event or situation without directly participating, often as a spectator or bystander
37. l__t a ban on alcohol *v.* to raise something to a higher position or level; to pick up something or somebody and move them to a different position
38. mo___n poetry *adj.* of or belonging to the present time or recent times
39. tu_____e energy *n.* a machine that rotates to generate power from fluids such as water or gas
40. ig___e a boom *v.* to set on fire; to cause to start burning
41. the bl__e of a turbine *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
42. a se_____y organ *adj.* of or relating to the physical senses
43. spectating on_____er *n.* a person who watches an event or situation without directly participating, often as a spectator or bystander
44. gra_____nal energy *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)

ANSWERS: 33. ratio, 34. expand, 35. individual, 36. onlooker, 37. lift, 38. modern, 39. turbine, 40. ignite, 41. blade, 42. sensory, 43. onlooker, 44. gravitational

- | | | |
|-----------------------------------|----|--|
| 45. cou_____ct global warming | v. | to act against something to reduce its bad or harmful effects or neutralize it |
| 46. centimeter-g__m-second system | n. | a metric unit of weight equal to one-thousandth of a kilogram |
| 47. binational ac____d | n. | an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have |
| 48. co_____ut training | n. | a Russian astronaut or space traveler; a person trained to travel and work in space, particularly as part of the Soviet or Russian space program |
| 49. imp_____ion on stage | n. | the act of making something up on the spot or creating or performing something without preparation |
| 50. fiscal st_____ty pact | n. | the quality or attribute of being firm and steadfast |
| 51. a mi____r collision | n. | some point in the air; above ground level |
| 52. cr____h support | n. | a device used to provide support or stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility |
| 53. gl__e through the water | v. | to move smoothly and effortlessly |
| 54. the c__e of an apple | n. | the most essential or fundamental part of something |
| 55. ma_____in order | v. | to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true |

ANSWERS: 45. counteract, 46. gram, 47. accord, 48. cosmonaut, 49. improvisation, 50. stability, 51. midair, 52. crutch, 53. glide, 54. core, 55. maintain

56. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
57. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
58. gl___e down the mountain *v.* to move smoothly and effortlessly
59. cut_____dge design *adj.* being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity
60. demonstrate an up___d trend *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
61. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
62. at inc_____le speed *adj.* unbelievable; enormous
63. feel a sl___t concern *adj.* very small in degree or amount
64. op_____or error *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
65. in_____on needle *n.* the act of introducing a liquid, especially a drug, into the body using a needle and a syringe

ANSWERS: 56. maintain, 57. involve, 58. glide, 59. cutting-edge, 60. upward, 61. involve, 62. incredible, 63. slight, 64. operator, 65. injection

66. a civil en_____er
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
67. LED-em_____ed glass
adj. fixed firmly into the surface of something
68. th____t a dagger home
v. to push or drive forcibly; to impose or insert; (noun) the force used in pushing
69. spontaneous com_____on
n. the act or process of burning something
70. sp_____l ability
adj. of or relating space and the position, area, and size of things
71. 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
72. con_____te to society
v. to give something, especially money or goods, to provide or achieve something together with other people
73. high vo____e
n. the amount of space occupied by an object or substance; the magnitude of sound
74. a pr_____on instrument
n. the quality or condition of being exact and accurate
75. chemical ad_____on
n. the act or process of adding something to something else; the process of adding numbers
76. inactive ma_____ry
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

ANSWERS: 66. engineer, 67. embedded, 68. thrust, 69. combustion, 70. spatial, 71. balance, 72. contribute, 73. volume, 74. precision, 75. addition, 76. machinery

77. vo___e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
78. ca_____e leader *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
79. critical m__s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
80. career adv_____nt *n.* the development, improvement, or progress of something
81. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
82. an air-cooled en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
83. private j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
84. ai_____ft control system *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
85. a gas ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
86. 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

ANSWERS: 77. volume, 78. capable, 79. mass, 80. advancement, 81. improvisation, 82. engine, 83. jet, 84. aircraft, 85. chamber, 86. rocket

87. gra_____nal waves *adj.* relating to or caused by gravity (= the force that attracts objects towards one another)
88. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
89. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
90. cou_____ct the effect of poison *v.* to act against something to reduce its bad or harmful effects or neutralize it
91. Ne_____an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation
92. the cy__e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
93. 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
94. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
95. ca_____te measurements *v.* to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
96. sl___t increase *adj.* very small in degree or amount
97. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line

ANSWERS: 87. gravitational, 88. jet, 89. cycle, 90. counteract, 91. Newtonian, 92. cycle, 93. gravity, 94. modern, 95. calibrate, 96. slight, 97. split

98. biomass f__l *n.* a substance that is typically burned to generate heat or energy
99. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
100. ex____t pipe *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
101. past mil_____um *n.* a span of 1000 years, or the 1000th anniversary (plural: millennia)
102. ai_____ne particles *adj.* moved or conveyed by or through the air; in the air
103. ind_____al freedom *n.* a single person or thing, as distinct from a group
104. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
105. co_____e an average score *v.* to make a mathematical calculation
106. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
107. 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
108. a test pi__t *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
109. ac___d with public opinion *n.* an official agreement or treaty between two organizations, countries, etc.; (verb) allow to have

ANSWERS: 98. fuel, 99. split, 100. exhaust, 101. millennium, 102. airborne, 103. individual, 104. manufacture, 105. compute, 106. device, 107. balance, 108. pilot, 109. accord

110. pr___l growth *v.* to move, drive or push something forward or in a particular direction, often with a lot of force
111. th___t a plate away *v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
112. maintain do_____rd compatibility *adj.* moving towards a lower position or a lower level
113. nuclear ph_____s *n.* the science of matter and energy and their interactions
114. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
115. leather st__p *n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport
116. a l__n horse *adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture
117. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
118. co_____ss the chest *v.* to press or squeeze together to make something take up less space
119. ai_____ne troop *adj.* moved or conveyed by or through the air; in the air
120. adv_____nt of knowledge *n.* the development, improvement, or progress of something

ANSWERS: 110. propel, 111. thrust, 112. downward, 113. physics, 114. complicated, 115. strap, 116. lean, 117. expand, 118. compress, 119. airborne, 120. advancement

121. ca_____te machinery *v.* to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
122. in___t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
123. speak with pr_____on *n.* the quality or condition of being exact and accurate
124. je_____k technology *n.* a device worn on the back that propels the wearer into the air by expelling jets of gas or water
125. 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
126. the lower ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
127. pi__t production *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
128. pr___l the ship *v.* to move, drive or push something forward or in a particular direction, often with a lot of force
129. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software

ANSWERS: 121. calibrate, 122. inject, 123. precision, 124. jetpack, 125. spinning, 126. chamber, 127. pilot, 128. propel, 129. engineer

130. incredible th___l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
131. de__t on national TV *n.* the first public performance of an artist or actor
132. camera st__p *n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport
133. a remote re____ve *adj.* considered and evaluated through comparison with something else
134. mo____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
135. ac____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
136. ma____e stars *adj.* enormous amount; very heavy and solid
137. st____ty pact *n.* the quality or attribute of being firm and steadfast
138. thrown out into mi____r *n.* some point in the air; above ground level

ANSWERS: 130. thrill, 131. debut, 132. strap, 133. relative, 134. movement, 135. achieve, 136. massive, 137. stability, 138. midair

139. ca_____e worker *adj.* having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
140. a film f_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
141. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
142. ex_____t a topic *n.* the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired
143. internal com_____on engine *n.* the act or process of burning something
144. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
145. lig_____ht aircraft *adj.* composed of thinner and lighter material than average; not severe or impressive
146. emotional cr___h *n.* a device used to provide support or stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility
147. he confessed dra_____lly *adv.* in a very impressive manner
148. Ne_____an physics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation

ANSWERS: 139. capable, 140. fan, 141. brain, 142. exhaust, 143. combustion, 144. device, 145. lightweight, 146. crutch, 147. dramatically, 148. Newtonian

149. re____ve factors *adj.* considered and evaluated through comparison with something else
150. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
151. di_____er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
152. g__m amount *n.* a metric unit of weight equal to one-thousandth of a kilogram
153. ef_____nt operation *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
154. by___s circuit *n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round
155. gastric by___s operation *n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round
156. s__t at law *n.* a set of clothes that are made from the same material; a claim or complaint that a person or organization can file in court against another party; (verb) to be fit or acceptable for
157. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 149. relative, 150. manufacture, 151. diameter, 152. gram, 153. efficient, 154. bypass, 155. bypass, 156. suit, 157. brain

158. energy-ef_____nt appliances *adj.* performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
159. heavy ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
160. student on a ti__t budget *adj.* fixed, fastened, or kept together firmly or closely
161. female co_____ut *n.* a Russian astronaut or space traveler; a person trained to travel and work in space, particularly as part of the Soviet or Russian space program
162. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
163. 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
164. sp_____l distribution *adj.* of or relating space and the position, area, and size of things
165. em_____ed systems *adj.* fixed firmly into the surface of something
166. l__n athletic figure *adj.* having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

ANSWERS: 158. efficient, 159. machinery, 160. tight, 161. cosmonaut, 162. addition, 163. spinning, 164. spatial, 165. embedded, 166. lean

167. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
168. de__t performance *n.* the first public performance of an artist or actor
169. the cabin pressure fell dra_____lly *adv.* in a very impressive manner
170. no___e attachment *n.* a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
171. co_____t level *n.* a state of physical ease and freedom from pain or constraint
172. co_____ss gas *v.* to press or squeeze together to make something take up less space
173. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
174. ma_____e amounts *adj.* enormous amount; very heavy and solid
175. a do_____rd slope *adj.* moving towards a lower position or a lower level
176. an elevator op_____or *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
177. ra__o of boys to girls *n.* the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal
178. a m___s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

ANSWERS: 167. opportune, 168. debut, 169. dramatically, 170. nozzle, 171. comfort, 172. compress, 173. engine, 174. massive, 175. downward, 176. operator, 177. ratio, 178. mass

179. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
180. c__e business activity *n.* the most essential or fundamental part of something
181. co_____e the value *v.* to make a mathematical calculation
182. mi__o force sensor *n.* extremely small in scale or scope; one millionth
183. ig___e passion *v.* to set on fire; to cause to start burning
184. alien spa_____ft *n.* a vehicle designed to travel through space, typically carrying astronauts or scientific instruments
185. a ti__t game *adj.* fixed, fastened, or kept together firmly or closely
186. in___t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
187. futuristic je_____k *n.* a device worn on the back that propels the wearer into the air by expelling jets of gas or water
188. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
189. s__t and tie restaurant *n.* a set of clothes that are made from the same material; a claim or complaint that a person or organization can file in court against another party; (verb) to be fit or acceptable for

ANSWERS: 179. complicated, 180. core, 181. compute, 182. micro, 183. ignite, 184. spacecraft, 185. tight, 186. inject, 187. jetpack, 188. movement, 189. suit

190. words of co____t *n.* a state of physical ease and freedom from pain or constraint
191. ad____e the technology *v.* to go or move forward; to develop in a positive way
192. a bl__e of grass *n.* the flat part of a knife, weapon, or machine with a very thin edge used for cutting
193. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
194. an ai____ft landing *n.* any vehicle that can fly and carry things or passengers, such as a plane or helicopter
195. lig____ht structure *adj.* composed of thinner and lighter material than average; not severe or impressive
196. the school ori____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
197. en____e over her performance *v.* to express enthusiastic approval or appreciation for something; to become highly interested or excited about something
198. we__h heavily on stock prices *v.* to have a particular weight; to carefully evaluate things before making a conclusion
199. l__t sagging skin *v.* to raise something to a higher position or level; to pick up something or somebody and move them to a different position

ANSWERS: 190. comfort, 191. advance, 192. blade, 193. achieve, 194. aircraft, 195. lightweight, 196. orientation, 197. enthuse, 198. weigh, 199. lift

200. fuel in_____on

n. the act of introducing a liquid, especially a drug, into the body using a needle and a syringe

ANSWERS: 200. injection

Session 3: Fill in the Blanks

1. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

2. _____ operational improvements often lead to better environmental performance.
adj. having a noticeably small amount of body fat; (verb) to bend or move from a straight to a sloping posture

3. He carefully determined the _____ relations of every piece of the stage set.
adj. of or relating space and the position, area, and size of things

4. He studied the _____ of radiation.
n. the science of matter and energy and their interactions

5. X-rays revealed a small tumor in his _____.
n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

6. Life expectancy has grown _____ this century.
adv. in a very impressive manner

7. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines

8. The _____ technology was revolutionary in its field.
adj. being at the forefront of a particular field or development; (noun) the latest or most advanced stage in the development of a specific type of work or activity

ANSWERS: 1. achieve, 2. Lean, 3. spatial, 4. physics, 5. brain, 6. dramatically, 7. manufactured, 8. cutting-edge

9. The marine _____ manufacturer demonstrated their newest hydroplane.
n. any vehicle that can fly and carry things or passengers, such as a plane or helicopter
10. The organization finally signed a peace _____.
n. an official agreement or treaty between two organizations, countries, etc.;
(verb) allow to have
11. 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
12. 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
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. _____ of the people grew until the revolt was unavoidable.
n. the act or process of burning something
15. 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
16. Draw a circle five centimeters in _____.
n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

ANSWERS: 9. aircraft, 10. accord, 11. device, 12. rocket, 13. thrill, 14. Combustion, 15. individual, 16. diameter

17. 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
18. The astronaut's _____ allowed him to move freely in zero gravity.
n. a device worn on the back that propels the wearer into the air by expelling jets of gas or water
19. The _____ exercised great care in landing.
n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
20. He received an _____ of antibiotics to treat his infection.
n. the act of introducing a liquid, especially a drug, into the body using a needle and a syringe
21. The motion of planets can be described using _____ mechanics.
adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation
22. The policy should increase the country's monetary _____.
n. the quality or attribute of being firm and steadfast
23. The athlete tightened the _____ on his running shoes before the race.
n. a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport
24. The _____ of audit formally issued a business improvement order.
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

ANSWERS: 17. spinning, 18. jetpack, 19. pilot, 20. injection, 21. Newtonian, 22. stability, 23. strap, 24. machinery

25. Competition between countries resulted in fast technological _____.
- n.* the development, improvement, or progress of something
26. The amount of _____ pollen this year is higher than usual.
- adj.* moved or conveyed by or through the air; in the air
27. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
28. Our body's immune system produces antibodies to _____ disease.
- v.* to act against something to reduce its bad or harmful effects or neutralize it
29. There will be an _____ lecture for new students this afternoon.
- n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
30. She flawlessly performed a _____ somersault.
- n.* some point in the air; above ground level
31. The food chain causes a material _____.
- n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
32. I need to _____ my car regularly to prevent any major mechanical issues.
- v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
33. He found _____ in the warm embrace of his loved ones.
- n.* a state of physical ease and freedom from pain or constraint

ANSWERS: 25. advancement, 26. airborne, 27. improvisation, 28. counteract, 29. orientation, 30. midair, 31. cycle, 32. maintain, 33. comfort

34. These gas nebulas are merely newborn galactic _____.
n. the most essential or fundamental part of something
35. Her interests are _____ to mine.
adj. similar or related in nature, character, or origin
36. The stock market has been in a _____ trend for the past month.
adj. moving towards a lower position or a lower level
37. The _____ expert analyzed the fluid around the aircraft.
n. the activity or process of designing, building, flying, and maintaining aircraft
38. 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)
39. In _____ private corporations provide healthcare services.
n. the act or process of adding something to something else; the process of adding numbers
40. This approach employs both _____ and macro analysis methods.
n. extremely small in scale or scope; one millionth
41. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
42. I'm a big ____ of French food.
n. a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces

ANSWERS: 34. cores, 35. akin, 36. downward, 37. aviation, 38. gravitational, 39. addition, 40. micro, 41. engineer, 42. fan

43. It is a basic instinct to _____ from a dangerous situation.

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

44. He walked with the aid of a _____ after breaking his leg in a skiing accident.

n. a device used to provide support or stability to a person with limited mobility or strength, such as a cane, walker, or pair of crutches; anything that is relied upon excessively or used as a way of avoiding difficulty or responsibility

45. The wind _____ were spinning rapidly, generating clean energy for the nearby town.

n. a machine that rotates to generate power from fluids such as water or gas

46. The _____ of the dancers on stage was graceful and elegant.

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

47. We made _____ modifications to reflect the views of both sides.

adj. very small in degree or amount

48. The human-crewed _____ successfully landed on the moon, fulfilling its mission.

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

49. The car wash _____ sprayed a powerful stream of soapy water onto the vehicle.

n. a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

ANSWERS: 43. flee, 44. crutch, 45. turbines, 46. movement, 47. slight, 48. spacecraft, 49. nozzle

50. The company adjusted the revenue _____.

adv. toward the top or highest point, or a higher position or level; (adjective)
extending or moving toward a higher place

51. This container has a _____ of 10 cubic meters.

n. the amount of space occupied by an object or substance; the magnitude of
sound

52. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

53. They hope to _____ their business worldwide.

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

54. 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

55. Powder coating protects the _____ aluminum alloy components.

adj. composed of thinner and lighter material than average; not severe or
impressive

56. An increase in employment helps _____ economic growth.

v. to move, drive or push something forward or in a particular direction, often with
a lot of force

57. He _____ the fireworks with a single spark.

v. to set on fire; to cause to start burning

ANSWERS: 50. upward, 51. volume, 52. relatives, 53. expand, 54. balance, 55.
lightweight, 56. propel, 57. ignited

58. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
59. The recent economic downturn has resulted in _____ layoffs.
- adj.* enormous amount; very heavy and solid
60. Let's try to _____ a bit of enthusiasm into your performance.
- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
61. The engine _____ the rocket into space.
- v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
62. I tried to _____ the efficiency of the investment.
- v.* to make a mathematical calculation
63. The phone rang at the most _____ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
64. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
65. This patient must undergo _____ surgery.
- n.* an alternative road, channel, pipe, or connection that allows flow while the main one is closed or obstructed; (verb) to go past or round

ANSWERS: 58. involves, 59. massive, 60. inject, 61. thrust, 62. compute, 63. opportune, 64. advance, 65. bypass

66. The ____ scarcity most severely impacted the manufacturing sector
n. a substance that is typically burned to generate heat or energy
67. The ____ of people who do not own property is politically impotent.
n. a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
68. She is highly _____ of handling multiple tasks at once.
adj. having the ability, skill, or potential to do something; competent or proficient in a particular task or area of expertise
69. The _____ of the katana itself is still in excellent condition.
n. the flat part of a knife, weapon, or machine with a very thin edge used for cutting
70. The national election was held amid _____ security.
adj. fixed, fastened, or kept together firmly or closely
71. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
72. He took a big drag of his cigarette and slowly _____ the smoke.
v. to officially force someone to leave a school, organization, or country
73. Government workers cannot _____ to political campaigns.
v. to give something, especially money or goods, to provide or achieve something together with other people

ANSWERS: 66. fuel, 67. mass, 68. capable, 69. blade, 70. tight, 71. complicated, 72. expelled, 73. contribute

74. The _____ chip in my credit card allows me to make contactless payments.
adj. fixed firmly into the surface of something
75. The _____ of the machine must follow strict safety protocols.
n. a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
76. 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
77. Our world is in the third _____.
n. a span of 1000 years, or the 1000th anniversary (plural: millennia)
78. Six _____ are awaiting trial or verdict.
n. a set of clothes that are made from the same material; a claim or complaint that a person or organization can file in court against another party; (verb) to be fit or acceptable for
79. The new washing machine is much more _____ than the old one.
adj. performing at the highest level of productivity with the least wasted effort or resources; capable of achieving maximum output with minimum wasted effort, time, or materials
80. Sharks have highly developed _____ systems and are extremely sensitive creatures.
adj. of or relating to the physical senses
81. Soviet _____ like Gagarin and Leonov were celebrated as national heroes.
n. a Russian astronaut or space traveler; a person trained to travel and work in space, particularly as part of the Soviet or Russian space program

ANSWERS: 74. embedded, 75. operator, 76. gravity, 77. millennium, 78. suits, 79. efficient, 80. sensory, 81. cosmonauts

82. The _____ album of the band was a success.
n. the first public performance of an artist or actor
83. The ____ flew over the ocean at high speed, reaching its destination in hours.
n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
84. The drought _____ the prices of grain globally.
v. to raise something to a higher position or level; to pick up something or somebody and move them to a different position
85. The baby _____ 1 pound 3 oz.
v. to have a particular weight; to carefully evaluate things before making a conclusion
86. Companies often _____ their shares to lower the stock price and encourage investors to buy.
v. to divide, or to make something divide into two or more parts, especially along a particular line
87. How much is it per one hundred _____
n. a metric unit of weight equal to one-thousandth of a kilogram
88. Our company must continue to strive for greater _____.
n. the state or quality of doing something well with no waste of input such as time or money
89. The _____ of water to sugar in the recipe is 1:2.
n. the relative size or amount of one thing to another, typically expressed in the form of a fraction or decimal

ANSWERS: 82. debut, 83. jet, 84. lifted, 85. weighs, 86. split, 87. grams?, 88. efficiency, 89. ratio

90. It's important to _____ the equipment regularly to ensure accurate results.
- v. to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
91. Their headquarters are in a _____ skyscraper.
- adj. of or belonging to the present time or recent times
92. The surgeon made an incision in the _____ of the patient's heart.
- n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament
93. The policies he announces can be the _____ of economic growth in the country.
- n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
94. She _____ the files into a single ZIP archive to save space on her computer.
- v. to press or squeeze together to make something take up less space
95. The company's CEO's enthusiasm for the new product line _____ the entire staff.
- v. to express enthusiastic approval or appreciation for something; to become highly interested or excited about something
96. Many _____ gathered at the beach to witness the rare sea turtle hatching.
- n. a person who watches an event or situation without directly participating, often as a spectator or bystander
97. The eagle gracefully _____ on the thermals, soaring above the mountains.
- v. to move smoothly and effortlessly

ANSWERS: 90. calibrate, 91. modern, 92. chambers, 93. engine, 94. compressed, 95. enthused, 96. onlookers, 97. glided

98. Her response revealed _____ idiocy.

adj. unbelievable; enormous

99. This operation requires both patience and _____.

n. the quality or condition of being exact and accurate

100. The factory's _____ fumes polluted the air and affected the health of the nearby residents.

n. the system in a vehicle that removes waste gases from the engine; (verb) to make someone completely tired

ANSWERS: 98. incredible, 99. precision, 100. exhaust