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Vocabulary Builder Reference from...

Dennis Hong: 7 new species of robot that dance, jump - and walk on water | TED Talk

https://www.ted.com/talks/dennis_hong_7_new_species_of_robot_that_dance_jump_and_walk_on_water

All Words

IMPORTANT

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Session 1: Word List

introductory

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

synonym: beginning, preliminary, initial

(1) **introductory** biology text, (2) product **introductory** sale
The **introductory** class was designed to give students a basic understanding of the subject.

unique

adj. being the only one of its kind; unlike anything else

synonym: one-of-a-kind, unparalleled, incomparable

(1) a **unique** teacher, (2) **unique** design
The painting is **unique**, and there is no other like it.

stride

v. to walk with long steps in a particular direction; (noun) an important and positive progress

synonym: step, walk, march

(1) **stride** across a room, (2) **stride** down a slope
She **strides** confidently across the stage to accept her award.

hybrid

adj. composed of different elements or mixed characters

synonym: blended, mixed, combined

(1) new **hybrid** system, (2) an interspecific **hybrid**

The mule is a **hybrid** between a male donkey and a female horse.

ameba

n. a single-celled organism that typically has the shape of a small, round blob and moves by means of temporary projections called pseudopodia

synonym : protozoan, single-celled organism, unicellular organism

(1) **ameba** culture, (2) **ameba** movement

The pathogenetic **ameba** moved by extending and retracting its pseudopodia.

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.

evolve

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

synonym : develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

humanoid

n. a machine or creature that has a body shape similar to that of a human

synonym : android, anthropomorphic

(1) **humanoid** hand, (2) **humanoid** design

The **humanoid** robot was able to mimic human movements and expressions.

torso

n. the human trunk from the neck to the abdomen

synonym : trunk, body, frame

(1) **torso** injury, (2) a **torso** in bronze

He was hit in the **torso** and was rushed to the hospital.

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

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

miniature *adj.* being on a very small scale

synonym: mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

statistics *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

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

synonym: catastrophe, calamity, tragedy

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

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

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

synonym: remedy, consolation, alleviation

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

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

autonomous *adj.* capable of governing or controlling its affairs

synonym: independent, self-governing, self-reliant

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

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

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**
In junior high school, we had to dissect a frog in **biology** class.

actuate

v. to cause a machine or equipment to start to work
synonym: motivate, spark, drive

(1) **actuate** the circuits, (2) **actuate** a parking brake
A desire for success **actuated** her.

unstable

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

synonym: shaky, unbalanced, inconsistent

(1) mentally **unstable**, (2) **unstable** weather
The tower proved to be **unstable** in the high wind.

resolve

v. to find a suitable answer to the problems or difficulty
synonym: decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error
This company **resolves** its battery problem completely.

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.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym: basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights
Human behavior has **fundamental** characteristics.

fascinating

adj. extremely interesting

synonym: alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me
The museum houses a **fascinating** collection of Celtic artifacts.

constantly

adv. all the time

synonym: continuously, always, frequently

(1) a **constantly** innovative enterprise, (2) a **constantly** varying mind
The mobile application industry is **constantly** changing.

backward

adv. at, to, or toward the direction or place that is behind or rear

synonym: back, rearward, in reverse

(1) walk **backward**, (2) **backward** angle
She falls over **backward** when she sees her mother-in-law.

unwanted

adj. not wanted or desired

synonym: undesired, unneeded

(1) **unwanted** attention, (2) **unwanted** guests
He threw away the **unwanted** items in his closet.

twist

v. to bend or turn something into a certain shape

synonym: wrench, turn, twirl

(1) **twist** around to the left, (2) **twist** a wet towel
He **twisted** pieces of rope out of straw.

competition

n. a situation in which someone is attempting to beat or outperform another

synonym: contest, match, fight

(1) the first round of the **competition**, (2) intraspecific **competition**

Global **competition** is rising in virtually every industry.

participate

v. to take part in something

synonym : take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

brilliant

adj. extremely clever, skilled, or impressive

synonym : luminous, intelligent, clever

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

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

nimble

adj. quick and light in movement or action

synonym : agile, quick, flexible

(1) **nimble** handling, (2) **nimble-minded** person

His **nimble** movements allowed him to navigate the crowded streets with ease.

sideways

adv. towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle

synonym : to the edge, obliquely, sidelong

(1) fall **sideways**, (2) a **sideways** market

She glanced **sideways** at the conversation of the boy she was interested in.

disappear

v. to cease to exist or be visible

synonym : fade, evaporate, vanish

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

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

inspiration

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

synonym :

motivation, drive, encouragement

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

fencing

n. the art or practice of fighting with swords, especially with foils, épées, or sabers, according to certain rules

synonym: swordplay, duelling, sabreplay

(1) **fencing** equipment, (2) **fencing** club

He practiced his **fencing** techniques with a partner.

ballet

n. a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing

(1) a **ballet** enthusiast, (2) **ballet** lessons

She is a leading female classical **ballet** dancer

rotate

v. to turn around a central point or axis; to move in a circular path around something

synonym: turn, revolve, spin

(1) **rotate** crops, (2) **rotate** about the origin

The Earth **rotates** on its axis once every 24 hours.

awkward

adj. making you feel uncomfortable or embarrassed; causing inconvenience or difficulty

synonym: embarrassing, discomfiting, clumsy

(1) an **awkward** expression, (2) an **awkward** date

The **awkward** design of the interface made the operation difficult.

configuration

n. the arrangement or pattern of something or a group of related things

synonym: arrangement, composition, formatting

(1) **configuration** of the system, (2) engine **configuration**

The **configuration** of molecules in steel changes significantly with temperature.

ankle

n. the part or joint connecting the foot to the leg
synonym : mortise joint

(1) **ankle** injury, (2) pair of **ankle** boots

He accidentally sprained his **ankle** playing squash.

rid

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

synonym : do away with, free, clear

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

We must **rid** ourselves of pollution.

shin

n. the front part of the leg below the knee

synonym : tibia, lower leg, front leg

(1) **shin** guard, (2) **shin** injury

The pain in his **shin** made it hard for him to walk.

emerge

v. to move out of or away from something and become visible

synonym : arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

anthropomorphic

adj. describing or relating to the attribution of human characteristics to non-human entities

synonym : human-like

(1) **anthropomorphic** agent, (2) **anthropomorphic** design

The **anthropomorphic** robot was designed to have a human-like appearance.

biped

n. an animal with two feet

synonym : hominoid

(1) **biped** robot, (2) a featherless **biped**

Biped walking encouraged the further evolution of humankind.

mention

v. to speak or write about something or someone briefly
synonym : reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

naval

adj. of or relating to ships, sailors, or the navy

synonym : marine, seafaring, maritime

(1) **naval** battles, (2) **naval** base

The **naval** officer was responsible for the safety and well-being of the crew on his ship.

seal

v. to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

synonym : enclose, shut, close

(1) **seal** a hole, (2) a fur **seal**

He **sealed** the letter with hot wax.

simulate

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

synonym : pretend, imitate, mimic

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

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

animation

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

synonym : motion, movement, liveliness

(1) **animation** studio, (2) **animation** film

The **animation** of the characters in the movie was so realistic, and it was as if they were there.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym: explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

fabricate

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

synonym: manufacture, assemble, falsify

(1) **fabricate** a chemical, (2) **fabricate** an excuse

The detective discovered that the witness had **fabricated** her story about the crime.

utilize

v. to use something for a practical purpose in an effective way

synonym: employ, use, operate

(1) **utilize** a different approach, (2) **utilize** a catheter

The cook **utilized** the leftover oxtail to make soup.

springy

adj. resilient; elastic; (of movements) light and confidently active

synonym: elastic, resilient, bouncy

(1) a **springy** step, (2) **springy** floor

The **springy** mattress provided a comfortable night's sleep.

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.

communal

adj. belonging to or used by a group rather than individuals; for common use

synonym: collaborative, combined, collective

(1) **communal** swimming pool, (2) **communal** combination of funds

Communal elections were held in several European countries.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

dynamics

n. the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

synonym: mechanics, kinetics, kinematics

(1) **dynamics** of group, (2) **dynamics** of economy

The relationship **dynamics** between the two countries were complex and constantly changing.

stack

n. a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated

synonym: accumulation, heap, pile

(1) high **stack**, (2) a large **stack** of paper

The earthquake caused a **stack** of lumber to crumble noisily.

axisymmetric

adj. having symmetry around an axis

(1) **axisymmetric** shape, (2) **axisymmetric** object

The **axisymmetric** design of the turbine blade made it more efficient.

stance

n. a way of thinking about something, especially expressed publicly; attitude or position of a standing person or animal

synonym : attitude, standpoint, viewpoint

(1) change her **stance**, (2) the batting **stance**

He continued to support her political **stance**.

unstructured

adj. not having a clear organization or arrangement

synonym : unorganized, unarranged, formless

(1) **unstructured** text, (2) **unstructured** information

The **unstructured** data took a lot of work to analyze and interpret.

outdo

v. to do better than someone; to surpass

synonym : excel, surpass, outshine

(1) **outdo** him in trickery, (2) **outdo** the competition

He tried to **outdo** his rival by breaking the world record.

environment

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

synonym : atmosphere, surroundings, climate

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

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

gallop

v. (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly

synonym : canter, race, bound

(1) **gallop** a horse, (2) **gallop** off at top speed

The horse **galloped** across the field at a fast pace.

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.

multimodal

adj. involving or using several ways of communication or expression

synonym : multiple-mode

(1) **multimodal** input device, (2) **multimodal** approach

The **multimodal** transportation system included trains, buses, and bikes.

locomotion

n. the action or ability to move from one place to another

synonym : movement, travel, mobility

(1) **locomotion** system, (2) **locomotion** control

The **locomotion** of the robotic arm was smooth and precise.

motor

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

synonym : actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

gear

n. a toothed wheel that engages another toothed mechanism to change the speed or direction of transmitted motion; a set of tools, equipment, or other items for a particular purpose

synonym : equipment, tools, apparatus

(1) sports **gear**, (2) a **gear** change lever

She checked her **gear** before embarking on the hike.

precise

adj. sharply exact or accurate or delimited

synonym : accurate, exact, distinct

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

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

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.

compliant

adj. willing to comply with rules, requests, or demands
synonym : obedient, conforming, amenable

(1) **compliant** software, (2) **compliant** regulations

The company is committed to being **compliant** with industry regulations.

experiment

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

synonym : experimentation, investigation

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

His **experiments** showed highly positive results.

unexpected

adj. not anticipated or regarded as likely to happen

synonym : surprising, unanticipated, incredible

(1) an **unexpected** visitor, (2) some **unexpected** events

The **unexpected** rainstorm caused the collapse of the corral.

generator

n. a machine that produces electricity

synonym : dynamo, alternator, creator

(1) random number **generator**, (2) major revenue **generator**

Most data centers have emergency **generators** on standby at all times.

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.

battery

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

synonym : electric cell, array, batch

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

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

generation

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

synonym : cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

excuse

n. a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt

synonym : apology, justification, reason

(1) **excuse** for inaction, (2) perfect **excuse**

He quickly fabricated an **excuse** for not attending the meeting.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym : thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

amazing

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

synonym : exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling
The golfer recorded an **amazing** distance.

remarkable

adj. worthy of attention because unusual or special
synonym : outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

stable

adj. firm and steady; not easily moved, disturbed, or changed

synonym : sturdy, unmoving, durable

(1) in **stable** condition, (2) have a **stable** job

Relations between the two countries have been relatively **stable** due to the summit meeting.

taekwondo

n. a Korean martial art that involves the use of the feet and hands for striking and blocking

(1) **taekwondo** competition, (2) **taekwondo** training

He has been practicing **taekwondo** for several years and now has a black belt.

practical

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

synonym : applicable, functional, realistic

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

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

hexapod

n. an animal or machine with six legs

synonym : six-legged, six-legged creature, six-legged animal

(1) **hexapod** animal, (2) **hexapod** mechanism

The **hexapod** robot was able to move in multiple directions.

hex

n. a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base

synonym :

jinx, curse, hexadecimal

(1) **hex** sign, (2) a **hex** format

Some people believe that the **hex** placed on their house is causing strange and unexplained occurrences.

static

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

synonym: immobile, unchanging, fixed

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

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

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**.

tripod

n. a three-legged stand, typically one with a platform for a camera or other equipment

synonym: three-legged stand, three-legged base, three-legged support

(1) **tripod** mic stand, (2) **tripod** mount

The photographer set up his camera on a **tripod** to take the shot.

rough

adj. not quite exact or correct; having or caused by an irregular surface

synonym: inelegant, coarse, barbarian

(1) **rough** and tough, (2) **rough** estimation

The vehicle bounced along the **rough** mountain road.

demining

n. the process of removing landmines from a given area

synonym: mine clearance, mine sweeping, landmine removal

(1) **demining** operation, (2) **demining** team

The **demining** effort successfully removed most explosive devices from the area, making them safe for civilian use.

landmine

n. an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle

synonym : mine, explosive device, antipersonnel mine

(1) destroy a **landmine**, (2) **landmine** removal

The antipersonnel **landmine** was a dangerous obstacle in the war-torn area.

underground

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

synonym : subterranean, subsurface, confidential

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

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

scare

v. to frighten a person or animal, or to become frightened

synonym : frighten, spook, intimidate

(1) **scare** off her attacker by screaming, (2) **scare** the birds away

We hit the ground to **scare** out the rabbits.

intelligent

adj. having the capacity for thought and reason, especially to a high degree

synonym : brilliant, clever, competent

(1) an **intelligent** person, (2) **intelligent** assisting system

Intelligent robots that can cooperate with humans have limited motor output for safety.

articulate

v. to express oneself clearly and effectively in spoken or written language

synonym : express, state, utter

(1) **articulate** his position, (2) eloquently **articulate**

She was able to **articulate** her argument in the debate clearly.

terrain

n. the physical features of a piece of land, including hills, valleys, rivers, and forests

synonym : land, geography, topography

(1) **terrain** map, (2) permafrost **terrain**

The mountainous **terrain** was rough and rocky.

brace

n. a device, typically one of a pair, for holding something in position or for strengthening an object; (verb) to support or hold steady and make steadfast

synonym : support, clamp, (verb) strengthen

(1) **brace** for impact, (2) **brace** my energies

She wore a **brace** on her leg to support her injured ankle.

suction

n. the action of drawing something towards or into a vacuum or partial vacuum

synonym : vacuum, sucking

(1) **suction** aspiration, (2) **suction** device

The **suction** cup was able to lift the heavy object with ease.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym : pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

blackboard

n. a large board made of a smooth, usually dark-colored slate attached to a wall used by teachers in schools for writing on with chalk

synonym : chalkboard, slate

(1) chalk on a **blackboard**, (2) electronic **blackboard**

The teacher asked me to rub out the **blackboard**.

vertical

adj. upright or perpendicular to a horizontal surface or line

synonym : perpendicular, upright, plumb

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

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

mobility

n. the ability to move or be moved freely or easily from one place, job, or social class to another

synonym: flexibility, maneuverability

(1) lack in **mobility**, (2) improve social **mobility**

I have limited **mobility** in my arms.

cliff

n. a steep rock face, especially one at the edge of the sea or a river

synonym: crag, escarpment, precipice

(1) a bold **cliff**, (2) **cliff** diving

He stood at the edge of the **cliff** and looked out to sea.

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.

brand

n. a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

synonym: trademark, label, symbol

(1) create a **brand** logo, (2) the **brand** of the new car

There's a new **brand** of hero in the movies now.

spine

n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column

synonym: backbone, vertebra, column

(1) the **spine** of a book, (2) a cervical **spine** injury

She has a minor curved **spine** due to desk work for many years.

exploration

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

synonym : inquiry, quest, investigation

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

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

quadruped

n. an animal that has four feet

synonym : four-legged, four-legged creature, four-legged animal

(1) **quadruped** walking vehicle, (2) **quadruped** robot

The **quadruped** animal was able to move quickly on four legs.

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.

grip

n. the act of holding onto something firmly with your hands, or the ability to do so; (verb) to hold fast or firmly

synonym : grasp, clasp, (verb) hold

(1) **grip** of fear, (2) lose my **grip**

He had a firm **grip** on the rope as he climbed the mountain.

grab

v. to take hold of something or someone suddenly with a hand, especially in a violent way

synonym : clutch, snatch, grasp

(1) **grab** an audience, (2) **grab** an opportunity

Shall we **grab** a bite to eat?

rescue

v. to save someone or something from a dangerous or difficult situation

synonym : save, extricate, retrieve

(1) **rescue** a dying dog, (2) **rescue** a company from bankruptcy

The fire department arrived just in time to **rescue** the family from the burning building.

planet

n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**
Mercury is the closest **planet** to the sun.

mar

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

synonym: damage, deface, disfigure

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

discovery

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

synonym: finding, uncovering, detection

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

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

omnidirectional

adj. able to move or function in any direction; receiving signals from or sending in all directions

synonym: all-directional, all-around, 360-degree

(1) **omnidirectional** microphone, (2) **omnidirectional** mobile robot

The **omnidirectional** antenna was able to pick up signals from all directions.

imply

v. to indicate the truth or existence of something without referring to it

synonym : hint, indicate, denote

(1) **imply** a strong correlation, (2) **imply** the presence of alien

The salespeople speak in technical terms to **imply** that they are more knowledgeable than the customer.

diagonal

adj. at an angle or slant; (noun) a line that runs across a surface or figure at an angle

synonym : oblique, sloping, slanting

(1) **diagonal** pattern, (2) place at a **diagonal**

The **diagonal** cut of the skirt added movement and flair to the outfit.

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.

magic

n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

synonym : fascination, illusion, wizardry

(1) a **magic** spell, (2) she is **magic**

He performed **magic** tricks with sophisticated moves.

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.

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.

steep

adj. having a sharp inclination or slope

synonym: sheer, precipitous, abrupt

(1) a **steep** staircase, (2) **steep** discount

The **steep** cliff made it difficult to climb.

roll

v. to move in a particular direction by turning over and over or from side to side

synonym: spin, swirl, wheel

(1) **roll** a ball, (2) **roll** down his cheeks

He was exhausted and **rolled** into bed as soon as he got home.

rim

n. the edge of something in the shape of a more or less circular object

synonym: boundary, lip, edge

(1) **rim** of the ear, (2) crater **rim**

The water level was even with the basin's **rim**.

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.

obstacle

n. a thing that blocks one's way or prevents or hinders progress

synonym: hindrance, barrier, block

(1) an **obstacle** to progress, (2) **obstacle** avoidance

The **obstacle** course was challenging but fun.

sect

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

synonym : group, faction, cult

(1) **sect** beliefs, (2) secret **sect**

The minority **sect** believed in a set of unconventional religious practices.

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.

clap

v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise

synonym : applaud, spat, acclaim

(1) **clap** my hands, (2) **clap** a book shut

We **clapped** along with the singer's song.

cheer

v. to give a loud shout to show support, praise, or approval

synonym : comfort, encourage, hearten

(1) **cheer** for the home team, (2) **cheer** me up

Supporters in the stands **cheered** at every goal.

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**.

buoyancy

n. the ability or tendency of an object to float in a fluid
synonym : flotation, levitation, airiness

(1) **buoyancy** principle, (2) **buoyancy** compensator

The object's **buoyancy** helped it float on the water's surface.

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.

helium

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

synonym : He, light gas, noble gas

(1) **helium** atom, (2) **helium** gas

The **helium-filled** balloons floated into the sky.

balloon

n. a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated

synonym : aerostat, blimp, (verb) billow out

(1) **balloon** ride, (2) **balloon** into a severe political problem

The satellite **balloon** slowly ascended into the sky.

elegant

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

synonym : refined, sophisticated, graceful

(1) **elegant** design, (2) write **elegant** sentences

She wore an **elegant** evening gown to the gala.

upstairs

adv. on or to an upper or highest floor of a building

synonym : above, upper

(1) live **upstairs**, (2) go **upstairs** to rest

I heard a noise **upstairs**.

downstairs

adv. on or to a lower or ground floor of a building

synonym : below

(1) creep **downstairs**, (2) escort him **downstairs**

Please get the desk **downstairs**.

crazy

adj. stupid or not sensible; very angry

synonym : insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

bilateral

adj. involving two sides or done by two parties together

synonym : two-sided, double-sided, two-faced

(1) **bilateral** talks, (2) **bilateral** symmetry

Both countries signed the **bilateral** agreement.

horrible

adj. extremely unpleasant or bad; causing fear or disgust

synonym : dreadful, terrible, awful

(1) **horrible** accident, (2) **horrible** smell

The experience was **horrible** and left a lasting impression.

outdoors

adv. in or into the open air; outside a building or structure

synonym : outside, al fresco, in the open air

(1) exhausted **outdoors**, (2) sleep **outdoors**

She loves to hike **outdoors** and explore nature.

vortex

n. a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind

synonym : whirlpool, whirlwind, maelstrom

(1) **vortex** formation, (2) blow in a **vortex**

The **vortex** of the tornado was massive and destructive.

cannon

n. a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting

synonym : artillery, gun, ordnance

(1) **cannon** salute, (2) **cannon** ball

The heavy **cannon** fired a loud shot that echoed across the

battlefield.

tightrope

n. a rope or wire stretched tightly between two points, on which acrobats, tightrope walkers, etc., perform; a risky or precarious situation that requires one to balance carefully to avoid falling or failure

synonym: rope walk, high wire, funambulism

(1) **tightrope** performer, (2) **tightrope** act

The **tightrope** walker balanced precariously above the crowd.

bang

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

synonym: crash, hit, smash

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

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

invention

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

synonym: creation, design, innovation

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

Necessity is the mother of **invention**.

creative

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

synonym: imaginative, innovative, inventive

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

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

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video

assistance.

sneak

v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily

synonym : creep, tiptoe, smuggle

(1) **sneak** a cigarette, (2) **sneak** out of danger

The children tried to **sneak** out and eat the candy.

peek

n. a quick or furtive look; (verb) to take a quick and secret look at something

synonym : glimpse, look, glance

(1) sneak **peek**, (2) **peek** at others' misfortune

She took a quick **peek** inside the box before closing it again.

component

n. one of several parts that combines with others to form something bigger

synonym : element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

assembly

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym : crowd, gathering, mass

(1) **assembly** line, (2) **assembly** hall

This company's **assembly** plant is an enormous facility.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

hardworking

adj. tending to work with a lot of effort and care

synonym : diligent, dedicated, conscientious

(1) **hardworking** student, (2) retire from **hardworking** life

They sought candidates with **hardworking** and good-natured.

nab v. to catch someone in the act of doing something wrong or illegal
synonym: catch, apprehend, arrest
(1) **nab** traffic offender, (2) **nab** the opportunity
The police were able to **nab** the thief before he could escape.

prototype n. a first or preliminary example of something such as a device or vehicle from which other forms are developed
synonym: mock-up, precursor, model
(1) complete a **prototype** product, (2) early **prototype**
The flying car is presently in the **prototype** stage.

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**.

laboratory n. a workplace for doing scientific research or teaching science; a lab
synonym: lab, workshop, testing room
(1) **laboratory** accident, (2) anthropology **laboratory**
Animal protection groups call for an end to animal testing in a **laboratory**.

conduct v. to organize and carry out a particular activity
synonym: behave, lead, carry on
(1) **conduct** a background check, (2) **conduct** research
Police will **conduct** random breath testing for drunk driving.

Session 2: Spelling

1. 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
2. ro___e about the origin
v. to turn around a central point or axis; to move in a circular path around something
3. c__p my hands
v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise
4. the cr____or's claims
n. a person, company, etc. to whom a debtor owes money
5. de____ng team
n. the process of removing landmines from a given area
6. n_b the opportunity
v. to catch someone in the act of doing something wrong or illegal
7. he____d animal
n. an animal or machine with six legs
8. 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
9. im__y a strong correlation
v. to indicate the truth or existence of something without referring to it
10. a un___e teacher
adj. being the only one of its kind; unlike anything else
11. m_r a proper relationship
v. to damage or spoil the appearance or surface of something

ANSWERS: 1. lift, 2. rotate, 3. clap, 4. creditor, 5. demining, 6. nab, 7. hexapod, 8. mechanism, 9. imply, 10. unique, 11. mar

- | | | |
|----------------------------------|-------------|--|
| 12. man_____re a product | <i>v.</i> | to make goods in large numbers, usually in a factory using machines |
| 13. an ob_____le to progress | <i>n.</i> | a thing that blocks one's way or prevents or hinders progress |
| 14. to__o injury | <i>n.</i> | the human trunk from the neck to the abdomen |
| 15. fe_____g equipment | <i>n.</i> | the art or practice of fighting with swords, especially with foils, épées, or sabers, according to certain rules |
| 16. perfect ex____e | <i>n.</i> | a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt |
| 17. crater r_m | <i>n.</i> | the edge of something in the shape of a more or less circular object |
| 18. a st__p staircase | <i>adj.</i> | having a sharp inclination or slope |
| 19. hu_____id design | <i>n.</i> | a machine or creature that has a body shape similar to that of a human |
| 20. int_____nt assisting system | <i>adj.</i> | having the capacity for thought and reason, especially to a high degree |
| 21. st____c website | <i>adj.</i> | not moving or not capable of moving, not changing or not capable of changing |
| 22. trigger a re_____on | <i>n.</i> | a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others |
| 23. complete a pr_____pe product | <i>n.</i> | a first or preliminary example of something such as a device or vehicle from which other forms are developed |

ANSWERS: 12. manufacture, 13. obstacle, 14. torso, 15. fencing, 16. excuse, 17. rim, 18. steep, 19. humanoid, 20. intelligent, 21. static, 22. reaction, 23. prototype

24. fall si____ys *adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
25. ba____n into a severe political problem *n.* a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
26. loc_____on control *n.* the action or ability to move from one place to another
27. am__a movement *n.* a single-celled organism that typically has the shape of a small, round blob and moves by means of temporary projections called pseudopodia
28. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
29. development of aut_____us vehicles *adj.* capable of governing or controlling its affairs
30. retire from har_____ng life *adj.* tending to work with a lot of effort and care
31. n_b traffic offender *v.* to catch someone in the act of doing something wrong or illegal
32. an_____on studio *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
33. 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

ANSWERS: 24. sideways, 25. balloon, 26. locomotion, 27. ameba, 28. manufacture, 29. autonomous, 30. hardworking, 31. nab, 32. animation, 33. electrify

34. ex___e for inaction *n.* a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt
35. de_____ng operation *n.* the process of removing landmines from a given area
36. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
37. he___m atom *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
38. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
39. a ba___t enthusiast *n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
40. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
41. art_____te his position *v.* to express oneself clearly and effectively in spoken or written language
42. lig_____ht structure *adj.* composed of thinner and lighter material than average; not severe or impressive

ANSWERS: 34. excuse, 35. demining, 36. complicated, 37. helium, 38. analyze, 39. ballet, 40. stick, 41. articulate, 42. lightweight

43. change her st___e *n.* a way of thinking about something, especially expressed publicly; attitude or position of a standing person or animal
44. the batting st___e *n.* a way of thinking about something, especially expressed publicly; attitude or position of a standing person or animal
45. write el____t sentences *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
46. tw__t around to the left *v.* to bend or turn something into a certain shape
47. ro___e crops *v.* to turn around a central point or axis; to move in a circular path around something
48. par____te fully in conversation *v.* to take part in something
49. rem____le achievement *adj.* worthy of attention because unusual or special
50. br__e my energies *n.* a device, typically one of a pair, for holding something in position or for strengthening an object; (verb) to support or hold steady and make steadfast
51. ob____le avoidance *n.* a thing that blocks one's way or prevents or hinders progress
52. electronic bla____rd *n.* a large board made of a smooth, usually dark-colored slate attached to a wall used by teachers in schools for writing on with chalk

ANSWERS: 43. stance, 44. stance, 45. elegant, 46. twist, 47. rotate, 48. participate, 49. remarkable, 50. brace, 51. obstacle, 52. blackboard

53. a cervical sp__e injury *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
54. 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
55. ta_____do training *n.* a Korean martial art that involves the use of the feet and hands for striking and blocking
56. ta_____do competition *n.* a Korean martial art that involves the use of the feet and hands for striking and blocking
57. mi_____re camera *adj.* being on a very small scale
58. con_____ion of the system *n.* the arrangement or pattern of something or a group of related things
59. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
60. 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
61. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
62. si_____te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 53. spine, 54. electrify, 55. taekwondo, 56. taekwondo, 57. miniature, 58. configuration, 59. experiment, 60. mechanism, 61. backward, 62. simulate

63. an interspecific hy___d *adj.* composed of different elements or mixed characters
64. sn__k out of danger *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily
65. cut_____dge molecular biology *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
66. an_____on film *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
67. sleep ou_____rs *adv.* in or into the open air; outside a building or structure
68. 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
69. ac_____e the circuits *v.* to cause a machine or equipment to start to work
70. blow in a vo___x *n.* a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind
71. m_r the reputation *v.* to damage or spoil the appearance or surface of something

ANSWERS: 63. hybrid, 64. sneak, 65. cutting-edge, 66. animation, 67. outdoors, 68. balance, 69. actuate, 70. vortex, 71. mar

72. a ma__c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
73. axi_____ric shape *adj.* having symmetry around an axis
74. get r_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
75. st___e down a slope *v.* to walk with long steps in a particular direction; (noun) an important and positive progress
76. product int_____ory sale *adj.* intended as an introduction or preliminary; serving as a base or starting point
77. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
78. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
79. in st___e condition *adj.* firm and steady; not easily moved, disturbed, or changed
80. fiscal st_____ty pact *n.* the quality or attribute of being firm and steadfast
81. tr___d mic stand *n.* a three-legged stand, typically one with a platform for a camera or other equipment
82. ut_____e a catheter *v.* to use something for a practical purpose in an effective way
83. an aw_____d expression *adj.* making you feel uncomfortable or embarrassed; causing inconvenience or difficulty

ANSWERS: 72. magic, 73. axisymmetric, 74. rid, 75. stride, 76. introductory, 77. resolve, 78. lab, 79. stable, 80. stability, 81. tripod, 82. utilize, 83. awkward

84. ro__h and tough *adj.* not quite exact or correct; having or caused by an irregular surface
85. ut____e a different approach *v.* to use something for a practical purpose in an effective way
86. am____g advances *adj.* extremely surprising, especially in a way that you like or admire
87. mul_____al input device *adj.* involving or using several ways of communication or expression
88. 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
89. re____e a dispute *v.* to find a suitable answer to the problems or difficulty
90. new hy____d system *adj.* composed of different elements or mixed characters
91. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
92. the most am____g feeling *adj.* extremely surprising, especially in a way that you like or admire
93. 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
94. lab_____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
95. intraspecific com_____on *n.* a situation in which someone is attempting to beat or outperform another

ANSWERS: 84. rough, 85. utilize, 86. amazing, 87. multimodal, 88. cutting-edge, 89. resolve, 90. hybrid, 91. fundamental, 92. amazing, 93. gravity, 94. laboratory, 95. competition

96. em___e from poverty *v.* to move out of or away from something and become visible
97. me_____n in a report *v.* to speak or write about something or someone briefly
98. cr__y about cars and racing *adj.* stupid or not sensible; very angry
99. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
100. dy_____cs of economy *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
101. un_____le weather *adj.* lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions
102. ga___p a horse *v.* (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly
103. tax re___f *n.* a feeling of happiness and relaxation that comes when something burdensome is removed or reduced
104. c__p a book shut *v.* to hit your hands together and make a short and loud noise, mainly to show your approval or praise
105. gl__e down the mountain *v.* to move smoothly and effortlessly
106. ba_____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

ANSWERS: 96. emerge, 97. mention, 98. crazy, 99. backward, 100. dynamics, 101. unstable, 102. gallop, 103. relief, 104. clap, 105. glide, 106. battery

107. qu_____ed walking vehicle *n.* an animal that has four feet
108. random number ge_____or *n.* a machine that produces electricity
109. tr____d mount *n.* a three-legged stand, typically one with a platform for a camera or other equipment
110. r_d the body of waste products *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
111. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
112. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
113. und_____nd activist *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
114. 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
115. st__p discount *adj.* having a sharp inclination or slope
116. a con_____ly varying mind *adv.* all the time
117. dy_____cs of group *n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change

ANSWERS: 107. quadruped, 108. generator, 109. tripod, 110. rid, 111. discovery, 112. creative, 113. underground, 114. planet, 115. steep, 116. constantly, 117. dynamics

118. b__g his fist on a desk *v.* to hit or cause to hit something in a way that makes a loud noise
119. destroy a la____ne *n.* an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle
120. ant_____hic design *adj.* describing or relating to the attribution of human characteristics to non-human entities
121. ro____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
122. la____ne removal *n.* an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle
123. sc__e the birds away *v.* to frighten a person or animal, or to become frightened
124. h_x sign *n.* a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
125. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
126. a cr__y scheme *adj.* stupid or not sensible; very angry
127. br_____nt idea *adj.* extremely clever, skilled, or impressive

ANSWERS: 118. bang, 119. landmine, 120. anthropomorphic, 121. robotic, 122. landmine, 123. scare, 124. hex, 125. generation, 126. crazy, 127. brilliant

128. sexual ori_____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
129. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
130. creep dow_____rs *adv.* on or to a lower or ground floor of a building
131. a con_____ly innovative enterprise *adv.* all the time
132. go up_____rs to rest *adv.* on or to an upper or highest floor of a building
133. some une_____ed events *adj.* not anticipated or regarded as likely to happen
134. st_____ty pact *n.* the quality or attribute of being firm and steadfast
135. source of ins_____on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
136. co_____nt regulations *adj.* willing to comply with rules, requests, or demands
137. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money
138. an aw_____d date *adj.* making you feel uncomfortable or embarrassed; causing inconvenience or difficulty
139. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning

ANSWERS: 128. orientation, 129. invention, 130. downstairs, 131. constantly, 132. upstairs, 133. unexpected, 134. stability, 135. inspiration, 136. compliant, 137. creditor, 138. awkward, 139. analyze

140. di____al pattern *adj.* at an angle or slant; (noun) a line that runs across a surface or figure at an angle
141. r_m of the ear *n.* the edge of something in the shape of a more or less circular object
142. pr____e analyses *adj.* sharply exact or accurate or delimited
143. 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
144. ca___n ball *n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
145. an int_____nt person *adj.* having the capacity for thought and reason, especially to a high degree
146. ni___e handling *adj.* quick and light in movement or action
147. omn_____nal mobile robot *adj.* able to move or function in any direction; receiving signals from or sending in all directions
148. su____n aspiration *n.* the action of drawing something towards or into a vacuum or partial vacuum
149. pr_____al English *adj.* of or connected with actual use or real situation rather than with theory and ideas
150. gl__e through the water *v.* to move smoothly and effortlessly
151. an une_____ed visitor *adj.* not anticipated or regarded as likely to happen

ANSWERS: 140. diagonal, 141. rim, 142. precise, 143. cable, 144. cannon, 145. intelligent, 146. nimble, 147. omnidirectional, 148. suction, 149. practical, 150. glide, 151. unexpected

152. a to__o in bronze *n.* the human trunk from the neck to the abdomen
153. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
154. high st__k *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
155. the first round of the com_____on *n.* a situation in which someone is attempting to beat or outperform another
156. co_____nt software *adj.* willing to comply with rules, requests, or demands
157. ho_____le smell *adj.* extremely unpleasant or bad; causing fear or disgust
158. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
159. un_____ed guests *adj.* not wanted or desired
160. fa_____te a chemical *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
161. sn__k a cigarette *v.* to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily

ANSWERS: 152. torso, 153. statistics, 154. stack, 155. competition, 156. compliant, 157. horrible, 158. fundamental, 159. unwanted, 160. fabricate, 161. sneak

162. int_____ory biology text *adj.* intended as an introduction or preliminary; serving as a base or starting point
163. lig_____ht aircraft *adj.* composed of thinner and lighter material than average; not severe or impressive
164. di_____ar after a week *v.* to cease to exist or be visible
165. im__y the presence of alien *v.* to indicate the truth or existence of something without referring to it
166. she is ma__c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
167. escort him dow_____rs *adv.* on or to a lower or ground floor of a building
168. co_____t research *v.* to organize and carry out a particular activity
169. st___c electricity *adj.* not moving or not capable of moving, not changing or not capable of changing
170. gain pr_____al experience *adj.* of or connected with actual use or real situation rather than with theory and ideas
171. b__g a phone down *v.* to hit or cause to hit something in a way that makes a loud noise
172. ge_____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
173. har_____ng student *adj.* tending to work with a lot of effort and care

ANSWERS: 162. introductory, 163. lightweight, 164. disappear, 165. imply, 166. magic, 167. downstairs, 168. conduct, 169. static, 170. practical, 171. bang, 172. generate, 173. hardworking

174. live up_____rs *adv.* on or to an upper or highest floor of a building
175. di_____er recovery *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
176. cl__f diving *n.* a steep rock face, especially one at the edge of the sea or a river
177. mi_____re version *adj.* being on a very small scale
178. improve social mo_____ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
179. bu_____cy compensator *n.* the ability or tendency of an object to float in a fluid
180. future of space exp_____on *n.* the activity of searching and finding out about something through a place
181. permafrost te_____n *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
182. ge_____te more electricity *v.* to produce or create something; to make offspring by reproduction
183. loc_____on system *n.* the action or ability to move from one place to another
184. global di_____er *n.* an unexpected event or series of events that cause widespread damage, destruction, or loss of life
185. engine con_____ion *n.* the arrangement or pattern of something or a group of related things
186. 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

ANSWERS: 174. upstairs, 175. disaster, 176. cliff, 177. miniature, 178. mobility, 179. buoyancy, 180. exploration, 181. terrain, 182. generate, 183. locomotion, 184. disaster, 185. configuration, 186. balance

187. a g__r change lever *n.* a toothed wheel that engages another toothed mechanism to change the speed or direction of transmitted motion; a set of tools, equipment, or other items for a particular purpose
188. de___e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
189. ca___n salute *n.* a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
190. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
191. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
192. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
193. exhausted ou_____rs *adv.* in or into the open air; outside a building or structure
194. 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
195. bi__d robot *n.* an animal with two feet
196. g__p of fear *n.* the act of holding onto something firmly with your hands, or the ability to do so; (verb) to hold fast or firmly

ANSWERS: 187. gear, 188. decide, 189. cannon, 190. excite, 191. environment, 192. motor, 193. outdoors, 194. planet, 195. biped, 196. grip

197. vo___x formation *n.* a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind
198. mul_____al approach *adj.* involving or using several ways of communication or expression
199. a fur s__l *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed
200. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
201. r__l down his cheeks *v.* to move in a particular direction by turning over and over or from side to side
202. ou__o him in trickery *v.* to do better than someone; to surpass
203. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
204. chalk on a bla_____rd *n.* a large board made of a smooth, usually dark-colored slate attached to a wall used by teachers in schools for writing on with chalk
205. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
206. am__a culture *n.* a single-celled organism that typically has the shape of a small, round blob and moves by means of temporary projections called pseudopodia

ANSWERS: 197. vortex, 198. multimodal, 199. seal, 200. evolve, 201. roll, 202. outdo, 203. complicated, 204. blackboard, 205. prototype, 206. ameba

207. s__n injury *n.* the front part of the leg below the knee
208. a h_x format *n.* a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
209. s__n guard *n.* the front part of the leg below the knee
210. bu____cy principle *n.* the ability or tendency of an object to float in a fluid
211. fe____g club *n.* the art or practice of fighting with swords, especially with foils, épées, or sabers, according to certain rules
212. the rem____le breadth of knowledge *adj.* worthy of attention because unusual or special
213. te____n map *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
214. 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
215. as____ly line *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
216. ex___e the crowd *v.* to make someone feel suddenly enthusiastic or eager
217. bi____al talks *adj.* involving two sides or done by two parties together

ANSWERS: 207. shin, 208. hex, 209. shin, 210. buoyancy, 211. fencing, 212. remarkable, 213. terrain, 214. cable, 215. assembly, 216. excite, 217. bilateral

218. he_____d mechanism *n.* an animal or machine with six legs
219. a featherless bi__d *n.* an animal with two feet
220. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
221. 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
222. hu_____id hand *n.* a machine or creature that has a body shape similar to that of a human
223. na__l battles *adj.* of or relating to ships, sailors, or the navy
224. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
225. a si_____ys market *adv.* towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
226. muscular st_____th *n.* the quality or state of being physically, or sometimes mentally, strong
227. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
228. ti_____pe performer *n.* a rope or wire stretched tightly between two points, on which acrobats, tightrope walkers, etc., perform; a risky or precarious situation that requires one to balance carefully to avoid falling or failure

ANSWERS: 218. hexapod, 219. biped, 220. environment, 221. gravity, 222. humanoid, 223. naval, 224. lab, 225. sideways, 226. strength, 227. creative, 228. tightrope

229. an Arctic exp_____on *n.* the activity of searching and finding out about something through a place
230. co_____t a background check *v.* to organize and carry out a particular activity
231. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
232. sigh of re___f *n.* a feeling of happiness and relaxation that comes when something burdensome is removed or reduced
233. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
234. g__b an opportunity *v.* to take hold of something or someone suddenly with a hand, especially in a violent way
235. lack in mo_____ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
236. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
237. get ins_____on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
238. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

ANSWERS: 229. exploration, 230. conduct, 231. evolve, 232. relief, 233. decide, 234. grab, 235. mobility, 236. generation, 237. inspiration, 238. reaction

239. r__l a ball *v.* to move in a particular direction by turning over and over or from side to side
240. an aut_____us judiciary *adj.* capable of governing or controlling its affairs
241. sports g__r *n.* a toothed wheel that engages another toothed mechanism to change the speed or direction of transmitted motion; a set of tools, equipment, or other items for a particular purpose
242. ro__h estimation *adj.* not quite exact or correct; having or caused by an irregular surface
243. ba_____n ride *n.* a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
244. qu_____ed robot *n.* an animal that has four feet
245. ni___e-minded person *adj.* quick and light in movement or action
246. a large st__k of paper *n.* a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
247. an__e injury *n.* the part or joint connecting the foot to the leg
248. 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.

ANSWERS: 239. roll, 240. autonomous, 241. gear, 242. rough, 243. balloon, 244. quadruped, 245. nimble, 246. stack, 247. ankle, 248. hop

249. ve_____al axis *adj.* upright or perpendicular to a horizontal surface or line
250. par_____te in the program *v.* to take part in something
251. di_____ar without a trace *v.* to cease to exist or be visible
252. lose my g__p *n.* the act of holding onto something firmly with your hands, or the ability to do so; (verb) to hold fast or firmly
253. eloquently art_____te *v.* to express oneself clearly and effectively in spoken or written language
254. the sp__e of a book *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
255. secret s__t *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
256. s__t beliefs *n.* a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream
257. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
258. a bold cl__f *n.* a steep rock face, especially one at the edge of the sea or a river

ANSWERS: 249. vertical, 250. participate, 251. disappear, 252. grip, 253. articulate, 254. spine, 255. sect, 256. sect, 257. discovery, 258. cliff

270. me_____n name *v.* to speak or write about something or someone briefly
271. em___e as a butterfly *v.* to move out of or away from something and become visible
272. p__k at others' misfortune *n.* a quick or furtive look; (verb) to take a quick and secret look at something
273. ant_____hic agent *adj.* describing or relating to the attribution of human characteristics to non-human entities
274. bi_____al symmetry *adj.* involving two sides or done by two parties together
275. el_____t design *adj.* pleasing and graceful in appearance or manner, or showing good taste and refinement
276. have a st___e job *adj.* firm and steady; not easily moved, disturbed, or changed
277. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
278. water flowing und_____nd *adj.* under the surface of the ground; a secret group organized to achieve a specific purpose, such as overthrowing the government or occupying a force
279. co_____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
280. ti_____pe act *n.* a rope or wire stretched tightly between two points, on which acrobats, tightrope walkers, etc., perform; a risky or precarious situation that requires one to balance carefully to avoid falling or failure

ANSWERS: 270. mention, 271. emerge, 272. peek, 273. anthropomorphic, 274. bilateral, 275. elegant, 276. stable, 277. biology, 278. underground, 279. communal, 280. tightrope

281. ho____le accident *adj.* extremely unpleasant or bad; causing fear or disgust
282. na__l base *adj.* of or relating to ships, sailors, or the navy
283. the school ori_____on *n.* a person's basic attitudes, beliefs, and preferences about particular things; a course introducing a new situation or environment
284. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
285. br__e for impact *n.* a device, typically one of a pair, for holding something in position or for strengthening an object; (verb) to support or hold steady and make steadfast
286. st____th of the economy *n.* the quality or state of being physically, or sometimes mentally, strong
287. uns_____red information *adj.* not having a clear organization or arrangement
288. estimate pr____e costs *adj.* sharply exact or accurate or delimited
289. uns_____red text *adj.* not having a clear organization or arrangement
290. as____ly hall *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

ANSWERS: 281. horrible, 282. naval, 283. orientation, 284. stick, 285. brace, 286. strength, 287. unstructured, 288. precise, 289. unstructured, 290. assembly

291. un_____ed attention *adj.* not wanted or desired
292. he___m gas *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
293. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
294. place at a di_____al *adj.* at an angle or slant; (noun) a line that runs across a surface or figure at an angle
295. a dry ba_____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
296. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
297. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
298. sp_____y floor *adj.* resilient; elastic; (of movements) light and confidently active
299. pair of an___e boots *n.* the part or joint connecting the foot to the leg
300. ac_____e a parking brake *v.* to cause a machine or equipment to start to work
301. s___l a hole *v.* to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

ANSWERS: 291. unwanted, 292. helium, 293. robotic, 294. diagonal, 295. battery, 296. invention, 297. laboratory, 298. springy, 299. ankle, 300. actuate, 301. seal

302. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
303. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
304. g__b an audience *v.* to take hold of something or someone suddenly with a hand, especially in a violent way
305. ga___p off at top speed *v.* (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly
306. a sp_____y step *adj.* resilient; elastic; (of movements) light and confidently active
307. 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
308. ou__o the competition *v.* to do better than someone; to surpass
309. begin to r_t *v.* to decay, or cause something to decay, naturally and gradually
310. fa_____te an excuse *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
311. ve_____al takeoff *adj.* upright or perpendicular to a horizontal surface or line
312. si_____te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 302. biology, 303. statistics, 304. grab, 305. gallop, 306. springy, 307. lift, 308. outdo, 309. rot, 310. fabricate, 311. vertical, 312. simulate

313. ch__r for the home team *v.* to give a loud shout to show support, praise, or approval
314. br_____nt performance *adj.* extremely clever, skilled, or impressive
315. 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.
316. co_____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
317. un___e design *adj.* being the only one of its kind; unlike anything else
318. sc__e off her attacker by screaming *v.* to frighten a person or animal, or to become frightened
319. r_t with age *v.* to decay, or cause something to decay, naturally and gradually
320. major revenue ge_____or *n.* a machine that produces electricity
321. ch__r me up *v.* to give a loud shout to show support, praise, or approval
322. su_____n device *n.* the action of drawing something towards or into a vacuum or partial vacuum
323. fas_____ng story *adj.* extremely interesting
324. key co_____nt *n.* one of several parts that combines with others to form something bigger
325. completely fas_____ng to me *adj.* extremely interesting
326. create a br__d logo *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

ANSWERS: 313. cheer, 314. brilliant, 315. hop, 316. communal, 317. unique, 318. scare, 319. rot, 320. generator, 321. cheer, 322. suction, 323. fascinating, 324. component, 325. fascinating, 326. brand

327. tw__t a wet towel

v. to bend or turn something into a certain shape

328. omn_____nal microphone

adj. able to move or function in any direction; receiving signals from or sending in all directions

ANSWERS: 327. twist, 328. omnidirectional

Session 3: Fill in the Blanks

1. The _____ antenna was able to pick up signals from all directions.
adj. able to move or function in any direction; receiving signals from or sending in all directions
2. The _____ walker balanced precariously above the crowd.
n. a rope or wire stretched tightly between two points, on which acrobats, tightrope walkers, etc., perform; a risky or precarious situation that requires one to balance carefully to avoid falling or failure
3. The horse _____ across the field at a fast pace.
v. (of a horse) to run very quickly so that all four feet come off the ground together; to proceed very quickly
4. The golfer recorded an _____ distance.
adj. extremely surprising, especially in a way that you like or admire
5. The vehicle bounced along the _____ mountain road.
adj. not quite exact or correct; having or caused by an irregular surface
6. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines
7. The photographer set up his camera on a _____ to take the shot.
n. a three-legged stand, typically one with a platform for a camera or other equipment
8. The _____ effort successfully removed most explosive devices from the area, making them safe for civilian use.
n. the process of removing landmines from a given area

ANSWERS: 1. omnidirectional, 2. tightrope, 3. galloped, 4. amazing, 5. rough, 6. manufactured, 7. tripod, 8. demining

9. This company _____ its battery problem completely.
v. to find a suitable answer to the problems or difficulty
10. The engine did not start because the _____ was flat.
n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
11. The police were able to ____ the thief before he could escape.
v. to catch someone in the act of doing something wrong or illegal
12. She glanced _____ at the conversation of the boy she was interested in.
adv. towards or from the side; with one side forward or to the front; (adjective, of movement) at an angle
13. The surgeon removed the tumor using _____ video assistance.
adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
14. I heard a noise _____.
adv. on or to an upper or highest floor of a building
15. The teacher asked me to rub out the _____.
n. a large board made of a smooth, usually dark-colored slate attached to a wall used by teachers in schools for writing on with chalk
16. A desire for success _____ her.
v. to cause a machine or equipment to start to work
17. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.
n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

ANSWERS: 9. resolves, 10. battery, 11. nab, 12. sideways, 13. robotic, 14. upstairs, 15. blackboard, 16. actuated, 17. motors

18. Shall we _____ a bite to eat?

- v.* to take hold of something or someone suddenly with a hand, especially in a violent way

19. She couldn't _____ whether to order the pizza or the pasta for dinner.

- v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options

20. The _____ animal was able to move quickly on four legs.

- n.* an animal that has four feet

21. _____ walking encouraged the further evolution of humankind.

- n.* an animal with two feet

22. The object's _____ helped it float on the water's surface.

- n.* the ability or tendency of an object to float in a fluid

23. _____ elections were held in several European countries.

- adj.* belonging to or used by a group rather than individuals; for common use

24. The Earth _____ on its axis once every 24 hours.

- v.* to turn around a central point or axis; to move in a circular path around something

25. She falls over _____ when she sees her mother-in-law.

- adv.* at, to, or toward the direction or place that is behind or rear

26. The _____ cup was able to lift the heavy object with ease.

- n.* the action of drawing something towards or into a vacuum or partial vacuum

ANSWERS: 18. grab, 19. decide, 20. quadruped, 21. Biped, 22. buoyancy, 23. Communal, 24. rotates, 25. backward, 26. suction

27. Eyeless fish _____ in dark caves.

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

28. 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

29. His _____ showed highly positive results.

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

30. The majority of students actively _____ in the college's intramural sports program.

- v.* to take part in something

31. The _____ of molecules in steel changes significantly with temperature.

- n.* the arrangement or pattern of something or a group of related things

32. The mountainous _____ was rough and rocky.

- n.* the physical features of a piece of land, including hills, valleys, rivers, and forests

33. Health and _____ are, above all, gold.

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

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

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

ANSWERS: 27. evolved, 28. lifted, 29. experiments, 30. participated, 31. configuration, 32. terrain, 33. strength, 34. inspiration

35. Her research team made an important _____.
- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
36. The _____ course was challenging but fun.
- n.* a thing that blocks one's way or prevents or hinders progress
37. He tried to _____ his rival by breaking the world record.
- v.* to do better than someone; to surpass
38. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
- n.* a person, company, etc. to whom a debtor owes money
39. She has a minor curved _____ due to desk work for many years.
- n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
40. Animal protection groups call for an end to animal testing in a _____.
- n.* a workplace for doing scientific research or teaching science; a lab
41. The ladder leaned against the _____ surface of the building.
- adj.* upright or perpendicular to a horizontal surface or line
42. The detective discovered that the witness had _____ her story about the crime.
- v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

ANSWERS: 35. discovery, 36. obstacle, 37. outdo, 38. creditor, 39. spine, 40. laboratory, 41. vertical, 42. fabricated

43. The satellite _____ slowly ascended into the sky.
n. a small bag made of thin rubber or other light material that can be inflated with air or gas, used as a toy or as a decoration; (verb) to become inflated
44. I _____ to him that I had seen his sister at the grocery store earlier that day.
v. to speak or write about something or someone briefly
45. The museum houses a _____ collection of Celtic artifacts.
adj. extremely interesting
46. Both countries signed the _____ agreement.
adj. involving two sides or done by two parties together
47. The earthquake caused a _____ of lumber to crumble noisily.
n. a pile of something arranged or laid one on top of another; a large tall chimney through which combustion gases and smoke can be evacuated
48. His _____ movements allowed him to navigate the crowded streets with ease.
adj. quick and light in movement or action
49. She was able to _____ her argument in the debate clearly.
v. to express oneself clearly and effectively in spoken or written language
50. The _____ response team worked around the clock to aid those affected by the earthquake.
n. an unexpected event or series of events that cause widespread damage, destruction, or loss of life
51. The children tried to _____ out and eat the candy.
v. to go somewhere, or take someone or something somewhere secretly or stealthily; to steal or do something secretly or stealthily

ANSWERS: 43. balloon, 44. mentioned, 45. fascinating, 46. bilateral, 47. stack, 48. nimble, 49. articulate, 50. disaster, 51. sneak

52. There's a new _____ of hero in the movies now.
n. a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
53. Police will _____ random breath testing for drunk driving.
v. to organize and carry out a particular activity
54. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special
55. The _____ robot was able to mimic human movements and expressions.
n. a machine or creature that has a body shape similar to that of a human
56. Relations between the two countries have been relatively _____ due to the summit meeting.
adj. firm and steady; not easily moved, disturbed, or changed
57. The _____ cliff made it difficult to climb.
adj. having a sharp inclination or slope
58. The scratches on the car _____ its otherwise perfect appearance.
v. to damage or spoil the appearance or surface of something
59. We _____ along with the singer's song.
v. to hit your hands together and make a short and loud noise, mainly to show your approval or praise
60. The _____ robot was designed to have a human-like appearance.
adj. describing or relating to the attribution of human characteristics to non-human entities

ANSWERS: 52. brand, 53. conduct, 54. remarkable, 55. humanoid, 56. stable, 57. steep, 58. marred, 59. clapped, 60. anthropomorphic

61. Necessity is the mother of _____.

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

62. The _____ design of the interface made the operation difficult.

adj. making you feel uncomfortable or embarrassed; causing inconvenience or difficulty

63. In junior high school, we had to dissect a frog in _____ class.

n. the scientific study of life and the natural processes of living things

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

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

65. Most data centers have emergency _____ on standby at all times.

n. a machine that produces electricity

66. Every human is responsible for taking care of the Earth's _____.

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

67. The _____ rainstorm caused the collapse of the corral.

adj. not anticipated or regarded as likely to happen

68. The _____ of the tornado was massive and destructive.

n. a mass of whirling air, water, dust, or smoke, especially a whirlpool or whirlwind

69. Having _____ parking has been very beneficial throughout the winter.

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

ANSWERS: 61. invention, 62. awkward, 63. biology, 64. relief, 65. generators, 66. environment, 67. unexpected, 68. vortex, 69. underground

70. Please get the desk _____.

adv. on or to a lower or ground floor of a building

71. The experience was _____ and left a lasting impression.

adj. extremely unpleasant or bad; causing fear or disgust

72. We must ____ ourselves of pollution.

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

73. The _____ officer was responsible for the safety and well-being of the crew on his ship.

adj. of or relating to ships, sailors, or the navy

74. They sought candidates with _____ and good-natured.

adj. tending to work with a lot of effort and care

75. 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

76. The teacher attempted to _____ the root cause of our mistake.

v. to think about in-depth and evaluate to discover essential features or meaning

77. He continued to support her political _____.

n. a way of thinking about something, especially expressed publicly; attitude or position of a standing person or animal

78. You _____ a bill in the change machine, and the coins pop out.

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 70. downstairs, 71. horrible, 72. rid, 73. naval, 74. hardworking, 75. mechanisms, 76. analyze, 77. stance, 78. stick

79. The relationship _____ between the two countries were complex and constantly changing.
- n.* the branch of mechanics that deals with the motion of bodies under the action of forces, including the particular case in which a body remains at rest; forces that produce or stimulate movement, growth, or change
80. The _____ robot was able to move in multiple directions.
- n.* an animal or machine with six legs
81. The cook _____ the leftover oxtail to make soup.
- v.* to use something for a practical purpose in an effective way
82. Powder coating protects the _____ aluminum alloy components.
- adj.* composed of thinner and lighter material than average; not severe or impressive
83. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
84. He called for a careful _____ of the consequences.
- n.* the activity of searching and finding out about something through a place
85. Supporters in the stands _____ at every goal.
- v.* to give a loud shout to show support, praise, or approval
86. Human behavior has _____ characteristics.
- adj.* forming an essential base or core from which everything else develops or is affected

ANSWERS: 79. dynamics, 80. hexapod, 81. utilized, 82. lightweight, 83. reaction, 84. exploration, 85. cheered, 86. fundamental

87. He accidentally sprained his _____ playing squash.

n. the part or joint connecting the foot to the leg

88. 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.

89. He was hit in the _____ and was rushed to the hospital.

n. the human trunk from the neck to the abdomen

90. The mule is a _____ between a male donkey and a female horse.

adj. composed of different elements or mixed characters

91. The _____ image on the screen took a lot of work to make out.

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

92. She took a quick _____ inside the box before closing it again.

n. a quick or furtive look; (verb) to take a quick and secret look at something

93. She _____ confidently across the stage to accept her award.

v. to walk with long steps in a particular direction; (noun) an important and positive progress

94. The minority _____ believed in a set of unconventional religious practices.

n. a group of people who follow a particular religious or philosophical belief system, especially one that is regarded as outside the norm or mainstream

95. The eagle gracefully _____ on the thermals, soaring above the mountains.

v. to move smoothly and effortlessly

ANSWERS: 87. ankle, 88. hopped, 89. torso, 90. hybrid, 91. static, 92. peek, 93. strides, 94. sect, 95. glided

96. 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

97. He _____ pieces of rope out of straw.

v. to bend or turn something into a certain shape

98. The company is committed to being _____ with industry regulations.

adj. willing to comply with rules, requests, or demands

99. The mobile application industry is _____ changing.

adv. all the time

100. She wore an _____ evening gown to the gala.

adj. pleasing and graceful in appearance or manner, or showing good taste and refinement

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

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

102. 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

103. _____ robots that can cooperate with humans have limited motor output for safety.

adj. having the capacity for thought and reason, especially to a high degree

ANSWERS: 96. electrify, 97. twisted, 98. compliant, 99. constantly, 100. elegant, 101. bang, 102. balance, 103. Intelligent

104. The tower proved to be _____ in the high wind.

adj. lacking solidity, persistence, or firmness and therefore not strong, safe, or likely to continue; lacking control of one's emotions

105. The _____ demonstrate that poverty and unemployment are genuine problems.

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

106. The water level was even with the basin's _____.

n. the edge of something in the shape of a more or less circular object

107. Her concept is highly _____ and helpful.

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

108. He was exhausted and _____ into bed as soon as he got home.

v. to move in a particular direction by turning over and over or from side to side

109. He _____ the letter with hot wax.

v. to close or fasten an envelope, etc. securely; (noun) a large marine mammal that chiefly lives in cold regions and comes on shore to breed

110. The painting is _____ and there is no other like it.

adj. being the only one of its kind; unlike anything else

111. The _____ balloons floated into the sky.

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

ANSWERS: 104. unstable, 105. statistics, 106. rim, 107. practical, 108. rolled, 109. sealed, 110. unique, 111. helium-filled

112. He stood at the edge of the _____ and looked out to sea.

n. a steep rock face, especially one at the edge of the sea or a river

113. I have limited _____ in my arms.

n. the ability to move or be moved freely or easily from one place, job, or social class to another

114. The pain in his _____ made it hard for him to walk.

n. the front part of the leg below the knee

115. 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

116. Some people believe that the _____ placed on their house is causing strange and unexplained occurrences.

n. a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base

117. 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

118. She checked her _____ before embarking on the hike.

n. a toothed wheel that engages another toothed mechanism to change the speed or direction of transmitted motion; a set of tools, equipment, or other items for a particular purpose

119. During colonial eras, new migratory patterns _____.

v. to move out of or away from something and become visible

ANSWERS: 112. cliff, 113. mobility, 114. shin, 115. orientation, 116. hex, 117. planet, 118. gear, 119. emerged

120. She wore a _____ on her leg to support her injured ankle.

n. a device, typically one of a pair, for holding something in position or for strengthening an object; (verb) to support or hold steady and make steadfast

121. He practiced his _____ techniques with a partner.

n. the art or practice of fighting with swords, especially with foils, épées, or sabers, according to certain rules

122. The fire department arrived just in time to _____ the family from the burning building.

v. to save someone or something from a dangerous or difficult situation

123. All the supervisor has to do is assign tasks that make his subordinates more _____.

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

124. He performed _____ tricks with sophisticated moves.

n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

125. The _____ data took a lot of work to analyze and interpret.

adj. not having a clear organization or arrangement

126. The policy should increase the country's monetary _____.

n. the quality or attribute of being firm and steadfast

127. He had a firm _____ on the rope as he climbed the mountain.

n. the act of holding onto something firmly with your hands, or the ability to do so; (verb) to hold fast or firmly

ANSWERS: 120. brace, 121. fencing, 122. rescue, 123. creative, 124. magic, 125. unstructured, 126. stability, 127. grip

128. We hit the ground to _____ out the rabbits.

v. to frighten a person or animal, or to become frightened

129. The flying car is presently in the _____ stage.

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

130. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.

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

131. The _____ class was designed to give students a basic understanding of the subject.

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

132. The _____ cut of the skirt added movement and flair to the outfit.

adj. at an angle or slant; (noun) a line that runs across a surface or figure at an angle

133. He quickly fabricated an _____ for not attending the meeting.

n. a reason or explanation, either true or invented, given to justify a fault or defend your behavior; (verb) to make someone free from blame or clear from guilt

134. She is a leading female classical _____ dancer

n. a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing

135. He had painted the wood to _____ stone.

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

ANSWERS: 128. scare, 129. prototype, 130. lab, 131. introductory, 132. diagonal, 133. excuse, 134. ballet, 135. simulate

136. The researchers try to discover a common _____ in all types of successful organizations.

n. one of several parts that combines with others to form something bigger

137. The _____ of the robotic arm was smooth and precise.

n. the action or ability to move from one place to another

138. 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

139. The _____ design of the turbine blade made it more efficient.

adj. having symmetry around an axis

140. The _____ mattress provided a comfortable night's sleep.

adj. resilient; elastic; (of movements) light and confidently active

141. The younger _____ has different values and beliefs than the older one.

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

142. They watched the train _____ into the distance.

v. to cease to exist or be visible

143. 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

144. The economic stimulation program would _____ a lot of new jobs.

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

ANSWERS: 136. component, 137. locomotion, 138. gravity, 139. axisymmetric, 140. springy, 141. generation, 142. disappear, 143. complicated, 144. generate

145. The heavy _____ fired a loud shot that echoed across the battlefield.
n. a large, heavy gun fired from a fixed position or mounted on a vehicle, used in warfare or hunting
146. The _____ transportation system included trains, buses, and bikes.
adj. involving or using several ways of communication or expression
147. He has been practicing _____ for several years and now has a black belt.
n. a Korean martial art that involves the use of the feet and hands for striking and blocking
148. This company's _____ plant is an enormous facility.
n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
149. The pathogenetic _____ moved by extending and retracting its pseudopodia.
n. a single-celled organism that typically has the shape of a small, round blob and moves by means of temporary projections called pseudopodia
150. He did complicated pen-and-ink drawings like medieval _____.
adj. being on a very small scale
151. The rain and thunder are _____ today.
adj. stupid or not sensible; very angry
152. The salespeople speak in technical terms to _____ that they are more knowledgeable than the customer.
v. to indicate the truth or existence of something without referring to it

ANSWERS: 145. cannon, 146. multimodal, 147. taekwondo, 148. assembly, 149. ameba, 150. miniatures, 151. crazy, 152. imply

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

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

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

adj. capable of governing or controlling its affairs

155. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

156. 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

157. The more _____ you are, the more people around you look at you with envy and jealousy.

adj. extremely clever, skilled, or impressive

158. The antipersonnel _____ was a dangerous obstacle in the war-torn area.

n. an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle

159. The _____ of the characters in the movie was so realistic, and it was as if they were there.

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

160. She loves to hike _____ and explore nature.

adv. in or into the open air; outside a building or structure

ANSWERS: 153. rot, 154. autonomous, 155. precise, 156. cutting-edge, 157. brilliant, 158. landmine, 159. animation, 160. outdoors

161. He threw away the _____ items in his closet.

adj. not wanted or desired

162. Global _____ is rising in virtually every industry.

n. a situation in which someone is attempting to beat or outperform another

163. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

164. 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

ANSWERS: 161. unwanted, 162. competition, 163. excited, 164. cables