

# Englist.me



## Vocabulary Builder Reference from...

*Dennis Hong: My seven species of robot -- and how we created them | TED Talk*

[https://www.ted.com/talks/dennis\\_hong\\_my\\_seven\\_species\\_of\\_robot\\_and\\_how\\_we\\_created\\_them](https://www.ted.com/talks/dennis_hong_my_seven_species_of_robot_and_how_we_created_them)

### All Words

#### IMPORTANT

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## Session 1: Word List

### 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.

### dynamic

*adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

*synonym*: energetic, active, vital

(1) a **dynamic** market, (2) **dynamic** person

The sprinter has a **dynamic** way of running.

### experimental

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

*synonym*: empirical, exploratory, observed

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

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

## inspire

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

*synonym*: boost, encourage, enlighten

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

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

## probable

*adj.* likely to happen or likely to be true

*synonym*: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

## 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.

## novel

*n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

*synonym*: fiction, story, (adjective) innovative

(1) historical **novel**, (2) **novel** effect

The **novel** has largely gotten positive feedback.

## fiction

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

*synonym*: fantasy, fable, invention

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

Truth is stranger than **fiction**.

## alien

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

*synonym* : foreigner, unfamiliar, unknown

(1) **alien** fungi, (2) resident **aliens**

**Alien** species have drastically altered the ecosystem in this area.

## creature

*n.* a living being, especially an animal

*synonym* : being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

## terrorize

*v.* to make someone feel extremely frightened by violence or threats

*synonym* : intimidate, frighten, threaten

(1) **terrorize** the prisoners, (2) **terrorize** boys into shutting up

The criminal gang **terrorized** innocent people.

## 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.

## flip

*v.* to turn over into a different position quickly; to throw or toss with a light motion

*synonym* : throw, jump

(1) **flip** over the pork chop, (2) **flip** a coin

He **flipped** when he heard that he had been accepted into the university.

## degree

*n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

*synonym* : level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

## biped

*n.* an animal with two feet

*synonym* : hominoid

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

**Biped** walking encouraged the further evolution of humankind.

## 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.

## built-in

*adj.* included as an integral part of something

*synonym* : integrated, inherent, equipped

(1) **built-in** feature, (2) **built-in** battery

The new car had a **built-in** navigation system.

## 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.

## physics

*n.* the science of matter and energy and their interactions

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

He studied the **physics** of radiation.

## pendulum

*n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism

*synonym*: oscillator, balance, clock

(1) **pendulum** swings, (2) political **pendulum**

The **pendulum** clock was a familiar sight in the old house.

## concept

*n.* an idea or principle associated with something abstract

*synonym*: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

## passive

*adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

*synonym*: inactive, lethargic, apathetic

(1) **passive** response, (2) **passive** vocabulary

The **passive** approach taken by the government towards climate change is concerning.

## 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.

## kinetic

*adj.* of or relating to motion or the forces that cause motion

*synonym*: active, dynamic, lively

(1) **kinetic** friction, (2) **kinetic** motion

The **kinetic** energy of the falling object increased as it fell.

## 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.

## process

*n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

*synonym* : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

## principle

*n.* a fundamental law or truth that explains or controls how something happens or works

*synonym* : rule, creed, code

(1) **principle** of treatment, (2) **principle** in business

Efficiency isn't an essential **principle** here; fairness is.

## long-range

*adj.* relating to or extending over a long distance, period of time, or range of possibilities

*synonym* : far-reaching, extended, distant

(1) **long-range** radar, (2) **long-range** weather forecast

The military uses **long-range** missiles to hit targets from far away.

## deploy

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

*synonym* : set up, expand, launch

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

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

## absorb

*v.* to take in a fluid or other substance gradually

*synonym* : consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock  
The sponge **absorbs** water well.

## shock

*n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

*synonym*: amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

## ray

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

*synonym*: beam, light, glimmer

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

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

## sensor

*n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

*synonym*: detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

## meter

*n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

*synonym*: gauge, indicator, rhythm

(1) a gas **meter**, (2) poetic **meter**

The **meter** on the wall showed that the room was three meters long.

## 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.

## bush

*n.* a plant growing thickly with many small branches and several stiff stems coming up from the root

*synonym*: copse, scrub, brushwood

(1) trees and **bushes**, (2) a **bush** of hair

I am going to trim this **bush** off.

## 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.

## 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.

## align

*v.* to put or arrange two or more things in a straight line or to form a straight line

*synonym*: coordinate, regulate, adjust

(1) **align** the economic interest of each other, (2) **align** with a historical trend

Both parties are now entirely ideologically **aligned**.

## joint

*adj.* shared, held, or made between two or more people;  
(noun) the point of connection between two bones or elements of a skeleton

*synonym*: collaborative, cooperative, combined

(1) a **joint** venture, (2) the bone of a **joint**

After the summit meeting, the prime ministers issued a **joint** statement.

## 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.

## synthesize

v. to combine a substance to make a more complex product or compound

*synonym*: incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information  
The spider can **synthesize** multiple different silk proteins.

## mechanical

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

*synonym*: machinelike, automated, automatic

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

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

## 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.

## 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.

## coordinate

v. to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree

*synonym*: organize, harmonize, ordinate

(1) **coordinate** a special project, (2) a **coordinate** clause  
We want to **coordinate** a schedule for the investigation.

## motto

*n.* a phrase or slogan that expresses a guiding principle or goal

*synonym*: slogan, catchphrase, phrase

(1) the **motto** for safe traffic, (2) company **motto**

The company's **motto** is "Innovation and Service," which is reflected in its products and customer support.

## mechatronics

*n.* technology or a field of science that combines electronics and mechanical engineering

(1) **mechatronics** design, (2) control **mechatronics** apparatuses

Researchers at that university's **mechatronics** laboratory have launched a humanoid robot startup.

## 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**.

## 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.

## 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.

## platform

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

*synonym* : stage, podium, forum

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

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

## 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.

## 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**.

## individually

*adv.* separately or apart from others

*synonym* : separately, one by one, independently

(1) answer questions **individually**, (2) **individually** designed product

Each department has done its product costing **individually**.

## hub

*n.* the central or main part of a particular place, activity, network, etc.; the central part of a car wheel, fan, propeller, etc., through which the shaft or axle passes

*synonym* : center, junction, focal point

(1) a **hub** of commerce, (2) education **hub**

This airport has taken the first step to become an international **hub** airport.

## literally

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

*synonym* : actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**  
He **literally** jumped out of his chair when he heard the news.

## reinvent

v. to change something so drastically that it looks to be completely new

*synonym*: recreate, remake, revive

(1) **reinvent** local dishes, (2) **reinvent** our life  
They have tried to **reinvent** their grocery stores.

## demonstrate

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

*synonym*: show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery  
How can you **demonstrate** that the earth is a sphere?

## react

v. to take action in response to something

*synonym*: respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking  
How did he **react** to your idea?

## tactile

*adj.* relating to the sense of touch; tangible or perceptible through the sense of touch

*synonym*: touchable, tangible, palpable

(1) **tactile** stimulation, (2) **tactile** feedback  
The **tactile** sensation of the fabric was soft and smooth to the touch.

## 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.

## encounter

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

*synonym* : meet, run into, come across

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

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

## extreme

*adj.* very great in amount or degree

*synonym* : farthestmost, outermost, fierce

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

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

## deliberate

*adj.* done with full consciousness of nature and effects rather than by accident

*synonym* : intentional, planned, careful

(1) the **deliberate** act of provocation, (2) **deliberate** attempt

Despite its advanced science and technology, the empire was **deliberate** about invasion.

## laser

*n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

*synonym* : beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

## identify

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

*synonym* : determine, specify, recognize

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

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

## impressive

*adj.* arousing admiration due to size, quality, or skill

*synonym* : impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

## develop

- v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

*synonym*: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

## steer

- v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

*synonym*: guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

## 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.

## differential

- n. an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference

*synonym*: contrasting, disparate, distinct

(1) **differential** wages, (2) **differential** equation

The two countries pledged to maintain the **differential** between their two currencies.

## opposition

- n. the act of disagreeing or resisting; the state of strong disagreement

*synonym*: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the

government's proposed legislation.

## axle

*n.* a rod or spindle around which a wheel or pair of wheels revolves; a central shaft used to transmit power to machinery or vehicles

*synonym* : spindle, shaft, pivot

(1) **axle** grease, (2) rear **axle**

The manufacturer tested the **axles** on the truck to ensure they were durable enough to handle heavy loads.

## 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**.

## velocity

*n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

*synonym* : speed, rapidity, swiftness

(1) initial **velocity**, (2) high **velocity**

The **velocity** of the car was too fast for the road conditions.

## diameter

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

*synonym* : diam, width

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

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

## neat

*adj.* clean or tidy, with everything in its place

*synonym* : tidy, uncluttered, refined

(1) a **neat** piece of work, (2) **neat** idea

She has **neat** habits.

## 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.

## rover

*n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon

*synonym*: vehicle, robot, explorer

(1) **rover** mission, (2) lunar **rover**

The **rover** on Mars is gathering data on the planet's surface and sending it back to Earth.

## geologist

*n.* a scientist or specialist who studies geology

(1) planetary **geologist**, (2) marine **geologist**

These issues baffled **geologists** for many years.

## 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.

## structure

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

*synonym*: construction, architecture, establishment

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

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

## 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**.



## winch

*n.* a mechanical device consisting of a drum or cylinder around which a rope or chain can be wound, typically used for lifting or pulling heavy objects

*synonym* : hoist, windlass, pulley

(1) electric **winch**, (2) **winch-controlled** pulley

Construction workers use a **winch** mechanism to lift heavy materials to higher floors.

## 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.

## fig

*n.* a sweet and soft edible fruit with many seeds or a tree on which these grow

(1) **fig** marigold, (2) **fig** tree

He ate the dried **figs** he had preserved.

## calculate

*v.* to judge or find out the amount or number of something by using mathematics

*synonym* : compute, figure, estimate

(1) **calculate** the distance, (2) **calculate** his credit score

He couldn't **calculate** the actual value of the artwork.

## distribute

*v.* to give something to a large number of individuals, or to spread or furnish something

*synonym* : broadcast, disperse, hand out

(1) **distribute** wealth evenly, (2) **distribute** video content

His estate was **distributed** to his sons.

## exert

*v.* to put forth effort; to put into action; to bring into play

*synonym* : apply, use, maintain

(1) **exert** control, (2) **exert** influence

He **exerted** himself to lift the heavyweight.

## tip

*n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

*synonym*: edge, advice, gratuity

(1) the **tip** of a paintbrush, (2) give the waiter a **tip** .

I will introduce some **tips** on learning English in this class.

## stabilize

*v.* to become or cause to become steady or unlikely to give way

*synonym*: brace, steady, secure

(1) **stabilize** prices, (2) **stabilize** blood sugar levels

The raising of interest rates **stabilizes** the inflation rate.

## 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.

## faculty

*n.* an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge

*synonym*: capability, talent, aptitude

(1) a member of the **faculty**, (2) the illative **faculty** of the mind

This university's computer science **faculty** is world distinguished.

## fellow

*adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you

*synonym*: buddy, mate, affiliate

(1) junior **fellow**, (2) nice **fellow**

He is the kind of **fellow** who only works for his success.

## 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.

## 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.

## adaptive

*adj.* capable of adjusting to new situations or changing conditions

*synonym* : flexible, adjustable, pliant

(1) the **adaptive** coloring, (2) **adaptive** technology

The **adaptive** learning system adjusts the difficulty level of the lessons based on the student's performance.

## gait

*n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion

*synonym* : pace, stride, step

(1) awkward **gait**, (2) brisk **gait**

The older woman's **gait** was slow and unsteady.

## payload

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

*synonym* : cargo, freight, shipment

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

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

## stud

*n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

*synonym*: beam, scantling, framing

(1) horse **stud**, (2) wall **stud**

He bought a new **stud** to attach the strap to his watch.

## 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.

## sandy

*adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown

*synonym*: arenaceous, sandlike

(1) miles of **sandy** beaches, (2) **sandy** hair

The rain rapidly soaked into the **sandy** soil.

## moisture

*n.* small amounts of liquid, especially water, that are present in or absorbed by a substance

*synonym*: dampness, humidity, wetness

(1) **moisture** level, (2) lot of **moisture**

My hair looks greasy because there is too much **moisture** in the air.

## grain

*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

*synonym*: seed, piece, cereal

(1) a **grain** of sand, (2) flour made from **grain**

Ordinary air purifiers cannot adequately remove pollen **grains**.

## sand

*n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

*synonym* : grit, dust, powder

(1) **sand** dunes, (2) **sand** castle

The **sand** on the beach was warm and golden.

## soil

*n.* the top layer of Earth in which plants grow

*synonym* : earth, ground, mud

(1) **soils** retentive of moisture, (2) parched **soil**

**Soil** moisture is another significant component controlling soil respiration.

## sinkage

*n.* the act or process of sinking or the state of being sunk; the amount or depth by which something sinks

*synonym* : subsidence, sinking, settling

(1) **sinkage** measurement, (2) soil **sinkage**

The ship's **sinkage** resulted from the heavy cargo it was carrying.

## adapt

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

*synonym* : adjust, acclimate, accustom

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

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

## 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**.

## technological

*adj.* based on scientific and industrial progress

*synonym* : specialized, technical

(1) **technological** advancement, (2) **technological** policy

**Technological** advances have disrupted many industries.

## 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.

## 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.

## feasibility

*n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished

*synonym*: viability, practicality, workability

(1) determine the **feasibility**, (2) **feasibility** assessment

A **feasibility** study is necessary to determine if a project is viable and worthwhile.

## elastic

*adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable

*synonym*: stretchy, flexible, resilient

(1) **elastic** body, (2) **elastic** waistband

The skin of a snake is remarkably **elastic**, allowing it to slither through tight spaces.

## tension

*n.* a state of mental or emotional strain or excitement; the state of being stretched tight

*synonym*: stress, strain, anxiety

(1) **tension** headache, (2) a high- **tension** wire

The **tension** in the room was palpable as the team waited for their leader to speak.

## cord

*n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

*synonym* : wire, cable, string

(1) spinal **cord**, (2) electrical **cord**

Your spinal **cord** is located deep within your body.

## 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.

## chimera

*n.* (in Greek mythology) a fire-breathing creature with a lion's head, a goat's body, and a snake's tail; a thing that is illusory or impossible to achieve

*synonym* : delusion, illusion, figment

(1) **chimera** mouse, (2) interspecies **chimera**

Animal **chimeras** are created by combining multiple fertilized eggs.

## engineer

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

*synonym* : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

## chemical

*adj.* relating to or connected with chemistry;

*synonym* : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

## 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.

## 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.

## blob

*n.* a small amount or drop of a thick liquid or sticky substance

*synonym*: chunk, lump, hunk

(1) a big **blob** of yellow, (2) a **blob** of jelly

A **blob** of ink fell on the floor.

## ligament

*n.* a band of tissue that connects bones or holds organs in place to support and stabilize the body

*synonym*: band, cord, tendon

(1) a **ligament** in the ankle, (2) cruciate **ligament**

The **ligaments** in the knee provide stability and support.

## doll

*n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

*synonym*: puppet, dolly, toy

(1) plastic **doll**, (2) rag **doll**

The antique **doll** was worth thousands of dollars.

## prosthetic

*adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

## 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.

## affordable

*adj.* not expensive and able to pay

*synonym*: cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

## tackle

*v.* to try to deal with a complex problem or situation

*synonym*: deal with, dive into, work on

(1) **tackle** the issue, (2) help **tackle** climate change

The government is determined to **tackle** sharp inflation.

## electrical

*adj.* relating to electricity

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

Actuators convert **electrical** pulses into motion.

## compress

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

*synonym*: condense, constrict, squeeze

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

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

## 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.

## crush

*v.* to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller

*synonym*: destroy, demolish, pulverize

(1) **crush** coffee beans, (2) **crush** a revolt

The car was completely **crushed** in the accident.

## soda

*n.* a carbonated soft drink containing a sweetened syrup or flavoring, often used interchangeably with "pop" or "soda pop" in different regions of the world

*synonym* : pop, cola, soft drink

(1) **soda** pop, (2) lemon-lime **soda**

I'm craving a cold **soda** to quench my thirst.

## delicate

*adj.* very fine, subtle, and pleasing; easily broken or damaged or destroyed

*synonym* : dainty, exquisite, fragile

(1) **delicate** attention, (2) a **delicate** flavor

The fresh green trees cast a **delicate** web of shadows over the lawn.

## bulb

*n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

(1) wet- **bulb** thermometer, (2) a lily **bulb**

The light **bulb** has burned out.

## serpentine

*adj.* characterized by twists, turns, or curves shaped like a snake; sly, cunning, or devious in behavior or expression

*synonym* : twisting, winding, curving

(1) **serpentine** road, (2) **serpentine** design

The **serpentine** river snaked through the lush forest.

## interface

*n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

*synonym* : junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**

Detergent weakens the surface tension at the **interface** of two liquids.

## optical

*adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

*synonym* : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

## fiber

*n.* thread or filament used to make a vegetable tissue, mineral material, or textile

*synonym* : yarn, thread, wool

(1) carbon **fiber**, (2) synthetic **fiber**

We must consume dietary **fiber** to maintain good health.

## 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.

## zone

*n.* a specific area, region, or section that is marked off or defined in some way

*synonym* : area, region, territory

(1) time **zone**, (2) **zone** defense

He was reluctant to leave his comfort **zone** and try something new.

## bomb

*n.* a weapon that explodes and is used to kill or injure people or to cause damage to something

*synonym* : missile, explosive, ammunition

(1) atomic **bombs**, (2) disarm the **bomb**

The use of cluster **bombs** is strictly prohibited by international law.

## remotely

*adv.* at a distance; not directly or easily accessible

*synonym* : slightly, barely, scarcely

(1) **remotely** operate, (2) control **remotely**

The company can **remotely** access its employees' computers for troubleshooting purposes.

## operator

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

*synonym*: controller, handler, manipulator

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

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

## operate

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

*synonym*: work, use, employ

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

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

## complexity

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

*synonym*: intricacy, sophistication, elaboration

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

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

## intuitive

*adj.* obtained through feelings rather than facts or proof

*synonym*: involuntary, instinctive, innate

(1) **intuitive** eating, (2) **intuitive** judgment

I had an **intuitive** feeling that I might be pregnant.

## manipulate

*v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way

*synonym*: control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate**

Please tell me how to **manipulate** this computer.

- fan** *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces  
*synonym* : lover, devotee, blade  
(1) a film **fan**, (2) engine cooling **fan**  
I'm a big **fan** of French food.
- 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.
- intelligence** *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons  
*synonym* : brains, brightness, cleverness  
(1) an **intelligence** test, (2) field of artificial **intelligence**  
In terms of **intelligence**, he was head and shoulders above his classmates.
- 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.
- revolutionary** *adj.* relating to or characterized by a complete or dramatic change  
*synonym* : radical, innovative, groundbreaking  
(1) **revolutionary** change, (2) enforce **revolutionary** justice  
The **revolutionary** leader inspired others to join the fight for freedom and democracy.
- loop** *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and

crosses itself

*synonym* : circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for transportation.

## disturbance

*n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried

*synonym* : disorder, upset, annoyance

(1) a nervous **disturbance**, (2) a **disturbance** caused by a terrorist

This building construction causes serious **disturbance** to residents.

## kinematics

*n.* the branch of mechanics that deals with the motion of objects without considering the forces that cause the motion; the study of the geometric and algebraic properties of motion, such as displacement, velocity, and acceleration

*synonym* : movement, motion, mechanics

(1) **kinematics** analysis, (2) rotational **kinematics**

The **kinematics** equations he used accurately predicted the object's future position.

## umbilical

*n.* relating to a flexible cord-like structure that connects a developing fetus to the placenta in the mother's uterus during pregnancy, called umbilical cord; connected or corresponding closely to something essential, such as a source of nourishment or support

*synonym* : navel, belly button, cord

(1) **umbilical** blood, (2) **umbilical** hernia

The **umbilical** cord is a vital lifeline between a mother and her unborn baby.

## external

*adj.* belonging to or situated outside of someone or something

*synonym* : outside, exterior, foreign

(1) **external** factors, (2) **external** commerce

When a company discloses information to the market, an **external** auditor verifies them.

## computation

*n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

*synonym* : calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

## compute

*v.* to make a mathematical calculation

*synonym* : calculate

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

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

## hertz

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

*synonym* : frequency, cycles per second

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

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

## chip

*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

*synonym* : flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

## accelerometer

*n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration

*synonym* : sensor, g-sensor, gravimeter

(1) **accelerometer** reading, (2) high-precision **accelerometer**

The phone's **accelerometer** measures its movement and orientation in three-dimensional space.

## **lithium**

*n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

*synonym*: lithy, Li, salt

(1) **lithium** carbonate, (2) **lithium** mining

**Lithium-ion** batteries are commonly used in laptops, smartphones, and electric vehicles.

## **polymer**

*n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

(1) **polymer** fiber, (2) biological **polymer**

We are developing plant-derived **polymers** to reduce environmental impact.

## **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.

## **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.

## **tether**

*v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog



*synonym* : tie, fasten, secure

(1) **tether** a horse, (2) **tether** strap

The hiker **tethered** their dog to a tree while they camped for the night.

## artificial

*adj.* not natural and made by human beings; not real but produced to resemble something

*synonym* : synthetic, man-made, manufactured

(1) **artificial** flowers, (2) **artificial** environment

The **artificial** intelligence system has revolutionized the way we live and work.

## spectator

*n.* someone present at an event, such as a sports game, play, or concert, to watch or observe it

*synonym* : onlooker, observer, viewer

(1) mass **spectator** sport, (2) **spectator** seat

She enjoyed watching the game as a **spectator**.

## 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.

## champion

*n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief

*synonym* : victor, winner, fighter

(1) a **champion** of peace, (2) the grand **champion**

The **champion** bicyclist outrode all his competitors.

## ambitious

*adj.* having a great desire to attain achievement, power, or wealth

*synonym* : enterprising, challenging, earnest

(1) achieve **ambitious** goals, (2) with an **ambitious** eye

Their company has been in business for a short time but has **ambitious** goals.

## 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.

## qualified

*adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job

*synonym*: eligible, skillful, accomplished

(1) a **qualified** doctor, (2) **qualified** in medicine

We seek a person **qualified** for the post.

## groan

*v.* to make a low, moaning sound, often indicating pain, discomfort, or dissatisfaction

*synonym*: moan, grunt, sigh

(1) **groan** in pain, (2) **groan** for water

The sight of the huge pile of laundry made me **groan** with dread.

## packaging

*n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging

*synonym*: wrapping, packing, boxing

(1) **packaging** materials, (2) biodegradable **packaging**

The **packaging** for the fragile items was made of sturdy materials and could withstand rough handling during shipping.

## exciting

*adj.* causing a lot of interest or excitement

*synonym*: exhilarating, stimulating, thrilling

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

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

unexpected.

## trophy

*n.* an object or prize, such as a cup or plaque, awarded to the winner of a competition or contest

*synonym*: prize, award, accolade

(1) **trophy** case, (2) **trophy** room

The soccer team won the **trophy** after a hard-fought competition.

## talent

*n.* a natural ability to be good at something; someone who has a natural ability to be good at something

*synonym*: endowment, aptitude, capability

(1) a person of diverse **talents**, (2) raw **talent**

Numerous great professional sports **talents** have come from this city.

## 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.

## symphony

*n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

*synonym*: orchestra, harmony, concert

(1) a **symphony** orchestra, (2) a beautiful **symphony**

The frequent performances of the **symphony** prove its popularity.

## orchestra

*n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion

*synonym*: ensemble, symphony, band

(1) full **orchestra**, (2) **orchestra** conductor

The accomplished **orchestra** will give two more performances this week.

## concert

*n.* a musical performance given in public by one or more players or singers

*synonym* : gig, musical, show

(1) have a **concert** again, (2) a benefit **concert**

This artist always packs the **concert** halls.

## 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.

## macho

*adj.* characterized by a strong sense of masculinity or male dominance, often in a way that is perceived as arrogant or aggressive

*synonym* : masculine, aggressive, virile

(1) **macho** culture, (2) maintain a **macho** image

His **macho** posturing was just a cover for his insecurities and lack of confidence.

## martial

*adj.* relating to soldiers or the military; warlike or inclined towards war

*synonym* : military, warlike, combative

(1) **martial** combat, (2) **martial** law

The **martial** arts teacher instructed the students in self-defense techniques.

## movement

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

*synonym* : motion, progression, action

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

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

## lobby

*n.* a large area inside the entrance of a public building where people can meet and wait; a group of people who try to persuade a politician, the government, or an official group to influence legislation

*synonym* : entrance, hall, anteroom

(1) **lobby** for legislation, (2) a hotel **lobby**

That **lobby** group actively advocated environmental protection to the government.

## tune

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

*synonym* : melody, harmony, (verb) adjust

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

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

## urban

*adj.* relating to or located in a town or city

*synonym* : metropolitan, civic

(1) **urban** planning, (2) **urban** property owners

Only a small number of **urban** utilities offer sanitation services.

## blind

*adj.* unable to see; unable or unwilling to perceive or understand the true nature of something

*synonym* : sightless, unseeing, random

(1) **blind** to the beauties, (2) **blind** spot

She was nearly **blind** due to severe diabetes.

## award

*n.* a prize or other mark of recognition given in honor of an achievement

*synonym* : prize, honor, accolade

(1) **award** ceremony, (2) participation **award**

He won the **award** for best actor at the film festival.

## 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.

## spark

v. to start something or make it grow, especially suddenly;  
to emit a tiny piece of fire or electricity

*synonym* : start, inspire, provoke

(1) **spark** his interest, (2) **spark** a chain reaction

The bankruptcy of the giant conglomerate **sparked** turmoil in the stock market.

## imaginary

*adj.* existing only in someone's mind

*synonym* : fictional, ideal, fantastical

(1) **imaginary** number, (2) **imaginary** pregnancy

Little children tend to have **imaginary** friends.

## assemble

v. to collect in one place as a single group

*synonym* : gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

## journal

n. a newspaper or magazine specialized in a specific topic or profession

*synonym* : periodical, diary, bulletin

(1) scientific **journal**, (2) **journal** articles

The physician is reading the **journals** related to medicine

## scribble

v. to write or draw carelessly and in a hurry

*synonym* : scabble, scrawl, jot

(1) **scribble** on paper, (2) **scribble** notes

The words were **scribbled** in pencil.

## junk

n. discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high

in calories but lacking in nutrition

*synonym*: trash, debris, waste

(1) **junk** mail, (2) hunk of **junk**

I need to clear out some of the **junk** in my garage.

## handwriting

*n.* (also "penmanship") the particular way in which a person writes, as distinct from printing or typing

*synonym*: script, penmanship, calligraphy

(1) **handwriting** identification, (2) **handwriting** sample

The **handwriting** on the note was barely legible.

## decipher

*v.* to read or understand something that is written in code or in a difficult or obscure way

*synonym*: interpret, decode, translate

(1) **decipher** code, (2) **decipher** message

He spent hours trying to **decipher** the ancient text.

## ingenious

*adj.* showing inventiveness and ability or skill

*synonym*: creative, innovative, inventive

(1) **ingenious** device, (2) **ingenious** idea

I always look forward to reading his stories since they're so **ingenious**.

## eureka

*n.* exclamation of triumph on discovering something; realization or sudden insight

*synonym*: discovery, breakthrough, aha moment

(1) have a **eureka** moment, (2) shout "**eureka!**"

"**Eureka!**" he exclaimed, finally solving the problem.

## sketch

*n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something

*synonym*: drawing, outline, blueprint

(1) a penciled **sketch**, (2) first design **sketches**

Yesterday, I created a rough **sketch** of the plan.

## database

*n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily

(1) **database** administrator, (2) employee **database**

Each country's officials can access the central **database**.

## proposal

*n.* a formal suggestion or offer, sometimes a written one

*synonym*: offer, suggestion, proposition

(1) an innovative **proposal**, (2) details of his **proposal**

Our skeleton outline of the **proposal** met with much opposition.

## fantastic

*adj.* extremely good; excellent

*synonym*: incredible, unbelievable, marvelous

(1) a **fantastic** dress, (2) absolutely **fantastic** event

The new amusement park ride was **fantastic**, with twists, turns, and drops that left riders screaming with excitement.

## brainstorming

*n.* a group activity or business method in which a group of people meet and think about something at the same time to solve a problem or to create good ideas

(1) **brainstorming** session, (2) do a **brainstorming** about a new product

Many companies employ **brainstorming** as a good way of generating innovative ideas.

## session

*n.* a formal meeting or series of meetings for the execution of a particular group's functions; a period spent doing a particular activity

*synonym*: conference, gathering

(1) the morning **session**, (2) the court **session**

Parliament is now in **session**.

## discuss

*v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

*synonym*: talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions



We need to **discuss** the next steps for the project during our meeting tomorrow.

## critic

*n.* someone who expresses opinions about the quality of books, music, etc.

*synonym*: pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

## uncomfortable

*adj.* providing or feeling physical discomfort or slight pain

*synonym*: comfortless, discomforting, painful

(1) an **uncomfortable** silence, (2) with an **uncomfortable** face

His abusive words made me **uncomfortable**.

## 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.

## wacky

*adj.* funny in a slightly odd, peculiar, irregular way

*synonym*: absurd, eccentric, ludicrous

(1) **wacky** value, (2) **wacky** plan for selling more books

His friend was a pretty wild and **wacky** character.

## 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.

## 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.

## 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.

## 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**.

## ken

n. knowledge, perception, understanding, or range of sight; (verb) to be aware of or know

*synonym*: knowledge, understanding, familiarity

(1) within my **ken**, (2) **ken** of the person

He had a good **ken** of the city and could easily find his way around.

## intuition

n. the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

*synonym*: instinct, gut feeling, sixth sense

(1) creative **intuition**, (2) **intuition** research

Some studies suggest that people's **intuitions** can be influenced by their experiences and biases.

## tinker

v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

*synonym*: fiddle, play, fix

(1) **tinker** with the bill, (2) **tinker** with the settings  
He spent the afternoon **tinkering** with his car engine.

## grand

*adj.* important and large in size, scope, or extent  
*synonym*: impressive, great, ambitious

(1) a **grand** meal, (2) **grand** bargain  
This year's **grand** gathering will be held in Canada.

## rigorous

*adj.* allowing or demanding no deviation from a standard;  
extremely careful, thorough, or accurate  
*synonym*: severe, exact, strict

(1) **rigorous** standards, (2) have **rigorous** criticism  
The way he manages his employees is extremely **rigorous**.

## utility

*n.* the state or quality of being useful or convenient; the  
service, such as electric power or water or  
transportation, provided by a public  
*synonym*: usefulness, practicality, service

(1) **utility** costs, (2) marginal **utility**  
The **utility** of the device was immediately apparent to all who  
saw it.

## belt

*v.* to sing loudly and forcefully; to hit someone or  
something hard; (noun) a strip of leather or other  
material worn to tie or buckle something around the  
body

*synonym*: sing, hit hard, (noun) strap  
(1) **belt** him in the face, (2) leather **belt**  
The band was **belting** out old songs in response to audience  
requests.

## grapple

*v.* to make a strenuous effort to solve a problem; to engage  
in a close fight or conflict without weapons  
*synonym*: brawl, scuffle, wrestle

(1) **grapple** with problem, (2) **grapple** with each other  
He needed to **grapple** with structural reforms to improve the

company's revenue.

## hook

*n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

*synonym*: buckle, pin, curve

(1) a hat **hook**, (2) the curved shape of a **hook**

Please hang your towel on a **hook**.

## gadget

*n.* a small tool or device that is useful for a particular job

*synonym*: appliance, gimmick, device

(1) a handy **gadget**, (2) time-saving **gadget**

I found the kitchen **gadget** that will serve as a bottle opener in the store.

## mathematics

*n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

*synonym*: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

## equation

*n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign

(1) the **equation** of poverty with ignorance, (2) a chemical **equation**

In this class, you will learn how to solve quadratic **equations**.

## linear

*adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

*synonym*: straight, direct, right

(1) **linear** trend, (2) a **linear** equation

People tend to make **linear** predictions.

## algebra

*n.* a type of mathematics in which signs and letters represent numbers

*synonym* : calculus

(1) **algebra** calculation, (2) strong in **algebra**

His classmates were laboring with advanced **algebra**.

## nowadays

*adv.* at the current time, in comparison to the past

*synonym* : currently, presently, today

(1) young people **nowadays**, (2) not to be seen **nowadays**

People can clone a sheep **nowadays**.

## chemistry

*n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions

(1) professor of **chemistry**, (2) the **chemistry** of soil

He is familiar with **chemistry** and biology.

## guarantee

*v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met

*synonym* : assure, promise, warrant

(1) **guarantee** a high quality, (2) **guarantee** women equality

We cannot **guarantee** enough raw material sources.

## topic

*n.* a subject that is being discussed or written about

*synonym* : subject, theme, issue

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

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

## productivity

*n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time

*synonym* : efficiency, output, performance

(1) **productivity** growth, (2) improved **productivity**

She increased her **productivity** by planning out her tasks for the day.

## Session 2: Spelling

- |                             |  |
|-----------------------------|--|
| 1. tr___y room              | <i>n.</i> an object or prize, such as a cup or plaque, awarded to the winner of a competition or contest   |
| 2. id_____fy gene sequences | <i>v.</i> to recognize someone or something and say or prove who or what they are  |
| 3. a featherless bi__d      | <i>n.</i> an animal with two feet  |
| 4. audio he__z              | <i>n.</i> the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals  |
| 5. de_____er message        | <i>v.</i> to read or understand something that is written in code or in a difficult or obscure way   |
| 6. f__p over the pork chop  | <i>v.</i> to turn over into a different position quickly; to throw or toss with a light motion   |
| 7. co_____ss gas            | <i>v.</i> to press or squeeze together to make something take up less space  |
| 8. an_____on studio         | <i>n.</i> 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 |
| 9. loc_____on control       | <i>n.</i> the action or ability to move from one place to another  |

ANSWERS: 1. trophy, 2. identify, 3. biped, 4. hertz, 5. decipher, 6. flip, 7. compress, 8. animation, 9. locomotion

10. details of his pr\_\_\_\_al                    *n.* a formal suggestion or offer, sometimes a written one
11. al\_\_n fungi                                    *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
12. s\_\_a pop                                      *n.* a carbonated soft drink containing a sweetened syrup or flavoring, often used interchangeably with "pop" or "soda pop" in different regions of the world
13. an elevator op\_\_\_\_or                      *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
14. improved pro\_\_\_\_ity                      *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time
15. de\_\_\_\_p a strategy                        *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
16. raw ta\_\_\_\_t                                  *n.* a natural ability to be good at something; someone who has a natural ability to be good at something

ANSWERS: 10. proposal, 11. alien, 12. soda, 13. operator, 14. productivity, 15. develop, 16. talent

17. r\_d the body of waste products      *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
18. cognitive com\_\_\_\_\_ty      *n.* the state or quality of being complicated or intricate and difficult to understand
19. ser\_\_\_\_\_ne design      *adj.* characterized by twists, turns, or curves shaped like a snake; sly, cunning, or devious in behavior or expression
20. junior fe\_\_\_w      *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
21. engine cooling f\_n      *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
22. tr\_\_\_y case      *n.* an object or prize, such as a cup or plaque, awarded to the winner of a competition or contest
23. de\_\_\_e a question      *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
24. bl\_\_d spot      *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
25. eloquently art\_\_\_\_\_te      *v.* to express oneself clearly and effectively in spoken or written language
26. a circular mo\_\_\_\_\_nt      *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 17. rid, 18. complexity, 19. serpentine, 20. fellow, 21. fan, 22. trophy, 23. decide, 24. blind, 25. articulate, 26. movement



27. env\_\_\_\_\_nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
28. a coo\_\_\_\_\_te clause *v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree
29. aw\_\_d ceremony *n.* a prize or other mark of recognition given in honor of an achievement
30. a nervous dis\_\_\_\_\_ce *n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
31. art\_\_\_\_\_al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
32. a c\_\_p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
33. a serious to\_\_c *n.* a subject that is being discussed or written about
34. a high-te\_\_\_\_\_n wire *n.* a state of mental or emotional strain or excitement; the state of being stretched tight
35. f\_\_p a coin *v.* to turn over into a different position quickly; to throw or toss with a light motion
36. st\_\_r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

ANSWERS: 27. environment, 28. coordinate, 29. award, 30. disturbance, 31. artificial, 32. chip, 33. topic, 34. tension, 35. flip, 36. steer

37. 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
38. company mo\_\_o *n.* a phrase or slogan that expresses a guiding principle or goal
39. the t\_\_e of a song *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
40. ab\_\_\_\_b a shock *v.* to take in a fluid or other substance gradually
41. st\_\_\_\_e down a slope *v.* to walk with long steps in a particular direction; (noun) an important and positive progress
42. ma\_\_o culture *adj.* characterized by a strong sense of masculinity or male dominance, often in a way that is perceived as arrogant or aggressive
43. com\_\_\_\_ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
44. improve social mo\_\_\_\_ty *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
45. ad\_\_t as needed *v.* to make fit for or change to suit a new purpose or environment
46. she is ma\_\_c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 37. robotic, 38. motto, 39. tune, 40. absorb, 41. stride, 42. macho, 43. complexity, 44. mobility, 45. adapt, 46. magic

47. k\_n of the person *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
48. ta\_\_\_\_\_e feedback *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
49. a person of diverse ta\_\_\_\_ts *n.* a natural ability to be good at something; someone who has a natural ability to be good at something
50. rag d\_\_l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
51. answer questions ind\_\_\_\_\_lly *adv.* separately or apart from others
52. ad\_\_t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
53. st\_\_\_\_\_ze blood sugar levels *v.* to become or cause to become steady or unlikely to give way
54. pr\_\_\_\_\_le outcome *adj.* likely to happen or likely to be true
55. degree in ele\_\_\_\_\_al engineering *adj.* relating to electricity
56. lo\_\_y for legislation *n.* a large area inside the entrance of a public building where people can meet and wait; a group of people who try to persuade a politician, the government, or an official group to influence legislation
57. gr\_\_\_\_\_e with problem *v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

ANSWERS: 47. ken, 48. tactile, 49. talent, 50. doll, 51. individually, 52. adapt, 53. stabilize, 54. probable, 55. electrical, 56. lobby, 57. grapple

58. early pr\_\_\_\_\_pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
59. art cr\_\_\_c *n.* someone who expresses opinions about the quality of books, music, etc.
60. the morning se\_\_\_\_\_n *n.* a formal meeting or series of meetings for the execution of a particular group's functions; a period spent doing a particular activity
61. a benefit co\_\_\_\_\_t *n.* a musical performance given in public by one or more players or singers
62. syn\_\_\_\_\_ze information *v.* to combine a substance to make a more complex product or compound
63. a hotel lo\_\_\_y *n.* a large area inside the entrance of a public building where people can meet and wait; a group of people who try to persuade a politician, the government, or an official group to influence legislation
64. de\_\_\_y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
65. a mo\_\_\_r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
66. vulnerable to man\_\_\_\_\_te *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
67. chaotic env\_\_\_\_\_nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 58. prototype, 59. critic, 60. session, 61. concert, 62. synthesize, 63. lobby, 64. deploy, 65. motor, 66. manipulate, 67. environment

68. learn new co\_\_\_\_\_ts *n.* an idea or principle associated with something abstract
69. en\_\_\_\_\_er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
70. la\_\_r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
71. maintain a ma\_\_o image *adj.* characterized by a strong sense of masculinity or male dominance, often in a way that is perceived as arrogant or aggressive
72. in\_\_\_\_\_us device *adj.* showing inventiveness and ability or skill
73. bi\_\_d robot *n.* an animal with two feet
74. gr\_\_n for water *v.* to make a low, moaning sound, often indicating pain, discomfort, or dissatisfaction
75. 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
76. do a bra\_\_\_\_\_ing about a new product *n.* a group activity or business method in which a group of people meet and think about something at the same time to solve a problem or to create good ideas
77. wa\_\_y value *adj.* funny in a slightly odd, peculiar, irregular way

ANSWERS: 68. concept, 69. encounter, 70. laser, 71. macho, 72. ingenious, 73. biped, 74. groan, 75. ameba, 76. brainstorming, 77. wacky

78. a ch\_\_\_\_al compound *adj.* relating to or connected with chemistry;
79. sp\_\_k his interest *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
80. the influence of mec\_\_\_\_\_al action *adj.* operated by a machine, relating to or concerned with machinery or tools
81. in\_\_\_\_\_ve judgment *adj.* obtained through feelings rather than facts or proof
82. al\_\_n with a historical trend *v.* to put or arrange two or more things in a straight line or to form a straight line
83. the ch\_\_\_\_\_ry of soil *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
84. a b\_\_h of hair *n.* a plant growing thickly with many small branches and several stiff stems coming up from the root
85. de\_\_\_y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
86. di\_\_\_\_\_s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
87. ur\_\_n property owners *adj.* relating to or located in a town or city
88. ser\_\_\_\_\_ne road *adj.* characterized by twists, turns, or curves shaped like a snake; sly, cunning, or devious in behavior or expression

ANSWERS: 78. chemical, 79. spark, 80. mechanical, 81. intuitive, 82. align, 83. chemistry, 84. bush, 85. deploy, 86. discuss, 87. urban, 88. serpentine

89. m\_r a proper relationship *v.* to damage or spoil the appearance or surface of something
90. planetary ge\_\_\_\_\_st *n.* a scientist or specialist who studies geology
91. ind\_\_\_\_\_lly designed product *adv.* separately or apart from others
92. a bold cl\_\_f *n.* a steep rock face, especially one at the edge of the sea or a river
93. po\_\_\_\_\_r fiber *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
94. get r\_d of the rats *v.* to make someone or something free of unwanted or unpleasant tasks, objects, or person
95. a digital pl\_\_\_\_\_rm for enterprise *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
96. sa\_\_y hair *adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown
97. a li\_\_\_\_\_nt in the ankle *n.* a band of tissue that connects bones or holds organs in place to support and stabilize the body
98. te\_\_\_\_\_n headache *n.* a state of mental or emotional strain or excitement; the state of being stretched tight
99. st\_\_r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

ANSWERS: 89. mar, 90. geologist, 91. individually, 92. cliff, 93. polymer, 94. rid, 95. platform, 96. sandy, 97. ligament, 98. tension, 99. steer

100. fea\_\_\_\_\_ty assessment *n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished
101. in\_\_\_\_\_e a feeling of curiosity *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
102. theory of com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
103. an unc\_\_\_\_\_ble silence *adj.* providing or feeling physical discomfort or slight pain
104. sp\_\_\_\_\_or seat *n.* someone present at an event, such as a sports game, play, or concert, to watch or observe it
105. el\_\_\_\_\_c body *adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable
106. lon\_\_\_\_\_ge radar *adj.* relating to or extending over a long distance, period of time, or range of possibilities
107. electric wi\_\_h *n.* a mechanical device consisting of a drum or cylinder around which a rope or chain can be wound, typically used for lifting or pulling heavy objects
108. satellite pa\_\_\_\_\_d *n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system

ANSWERS: 100. feasibility, 101. inspire, 102. computation, 103. uncomfortable, 104. spectator, 105. elastic, 106. long-range, 107. winch, 108. payload



109. carbon fi\_\_r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
110. give the waiter a t\_p. *n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
111. gain pr\_\_\_\_\_al experience *adj.* of or connected with actual use or real situation rather than with theory and ideas
112. aff\_\_\_\_\_le housing *adj.* not expensive and able to pay
113. en\_\_\_\_\_er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
114. a gas me\_\_r *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
115. co\_\_\_\_\_ss the chest *v.* to press or squeeze together to make something take up less space
116. qu\_\_\_\_\_ed in medicine *adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
117. development of aut\_\_\_\_\_us vehicles *adj.* capable of governing or controlling its affairs
118. bu\_\_\_\_\_in battery *adj.* included as an integral part of something

ANSWERS: 109. fiber, 110. tip, 111. practical, 112. affordable, 113. engineer, 114. meter, 115. compress, 116. qualified, 117. autonomous, 118. built-in

119. ri\_\_\_\_us standards *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
120. synthetic fi\_\_r *n.* thread or filament used to make a vegetable tissue, mineral material, or textile
121. miles of sa\_\_y beaches *adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown
122. ma\_\_\_\_l law *adj.* relating to soldiers or the military; warlike or inclined towards war
123. pulse la\_\_r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
124. opaque to X-r\_ys *n.* a narrow line of light, heat, or another form of energy
125. a gr\_\_d meal *adj.* important and large in size, scope, or extent
126. a ma\_\_c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
127. a\_\_e grease *n.* a rod or spindle around which a wheel or pair of wheels revolves; a central shaft used to transmit power to machinery or vehicles
128. ac\_\_\_\_e a parking brake *v.* to cause a machine or equipment to start to work

ANSWERS: 119. rigorous, 120. fiber, 121. sandy, 122. martial, 123. laser, 124. ray, 125. grand, 126. magic, 127. axle, 128. actuate

129. the user in\_\_\_\_\_ce                    *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
130. interspecies ch\_\_\_\_\_a                *n.* (in Greek mythology) a fire-breathing creature with a lion's head, a goat's body, and a snake's tail; a thing that is illusory or impossible to achieve
131. the curved shape of a h\_\_k              *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
132. pa\_\_\_\_\_ng materials                *n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging
133. cr\_\_\_\_\_ve writing                    *adj.* relating to or involving the use of skill and original and unusual ideas to create something
134. st\_\_\_\_\_re and function of the brain    *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
135. 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
136. a big b\_\_b of yellow                    *n.* a small amount or drop of a thick liquid or sticky substance
137. el\_\_\_\_\_c waistband                  *adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable

ANSWERS: 129. interface, 130. chimera, 131. hook, 132. packaging, 133. creative, 134. structure, 135. decide, 136. blob, 137. elastic



148. biological po\_\_\_\_r *n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules
149. cr\_\_h coffee beans *v.* to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller
150. within my k\_n *n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know
151. dif\_\_\_\_\_ial wages *n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference
152. coo\_\_\_\_\_te a special project *v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree
153. jo\_\_\_\_\_l articles *n.* a newspaper or magazine specialized in a specific topic or profession
154. time-saving ga\_\_\_\_t *n.* a small tool or device that is useful for a particular job
155. r\_t with age *v.* to decay, or cause something to decay, naturally and gradually
156. enforce rev\_\_\_\_\_ary justice *adj.* relating to or characterized by a complete or dramatic change
157. rev\_\_\_\_\_ary change *adj.* relating to or characterized by a complete or dramatic change

ANSWERS: 148. polymer, 149. crush, 150. ken, 151. differential, 152. coordinate, 153. journal, 154. gadget, 155. rot, 156. revolutionary, 157. revolutionary

158. wall s\_\_d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
159. an int\_\_\_\_\_nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
160. st\_\_\_e across a room *v.* to walk with long steps in a particular direction; (noun) an important and positive progress
161. man\_\_\_\_\_te figures *v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
162. 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
163. a cr\_\_y scheme *adj.* stupid or not sensible; very angry
164. 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
165. s\_\_d castle *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

ANSWERS: 158. stud, 159. intelligence, 160. stride, 161. manipulate, 162. cable, 163. crazy, 164. generation, 165. sand

166. gu\_\_\_\_\_ee a high quality  
*v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
167. st\_\_\_\_\_ze prices  
*v.* to become or cause to become steady or unlikely to give way
168. gr\_\_\_\_\_e with each other  
*v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons
169. tec\_\_\_\_\_cal policy  
*adj.* based on scientific and industrial progress
170. toxic ch\_\_\_\_\_als  
*adj.* relating to or connected with chemistry;
171. a con\_\_\_\_\_ly varying mind  
*adv.* all the time
172. pr\_\_\_\_\_le in business  
*n.* a fundamental law or truth that explains or controls how something happens or works
173. dy\_\_\_\_\_c person  
*adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
174. trees and b\_\_hes  
*n.* a plant growing thickly with many small branches and several stiff stems coming up from the root
175. n\_\_t idea  
*adj.* clean or tidy, with everything in its place
176. an int\_\_\_\_\_nt person  
*adj.* having the capacity for thought and reason, especially to a high degree
177. decision-making pr\_\_\_\_\_s  
*n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 166. guarantee, 167. stabilize, 168. grapple, 169. technological, 170. chemical, 171. constantly, 172. principle, 173. dynamic, 174. bush, 175. neat, 176. intelligent, 177. process



178. r\_m of the ear *n.* the edge of something in the shape of a more or less circular object
179. awkward g\_\_t *n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion
180. te\_\_\_r strap *v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog
181. op\_\_\_\_\_or error *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
182. a n\_\_t piece of work *adj.* clean or tidy, with everything in its place
183. a civil en\_\_\_\_\_er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
184. mat\_\_\_\_\_cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
185. a fa\_\_\_\_\_ic dress *adj.* extremely good; excellent
186. meet with opp\_\_\_\_\_on *n.* the act of disagreeing or resisting; the state of strong disagreement
187. pro\_\_\_\_\_ity growth *n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time

ANSWERS: 178. rim, 179. gait, 180. tether, 181. operator, 182. neat, 183. engineer, 184. mathematics, 185. fantastic, 186. opposition, 187. productivity

188. ex\_\_\_\_\_e sports *adj.* very great in amount or degree
189. 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
190. exp\_\_\_\_\_tal design *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
191. di\_\_\_\_\_s options *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
192. death from sh\_\_k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
193. pr\_\_\_\_\_le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
194. ad\_\_\_\_\_ve technology *adj.* capable of adjusting to new situations or changing conditions
195. hunk of j\_\_k *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
196. br\_\_\_\_\_nt performance *adj.* extremely clever, skilled, or impressive
197. strong in al\_\_\_\_\_a *n.* a type of mathematics in which signs and letters represent numbers

ANSWERS: 188. extreme, 189. lift, 190. experimental, 191. discuss, 192. shock, 193. principle, 194. adaptive, 195. junk, 196. brilliant, 197. algebra

198. lack in mo\_\_\_\_ty                    *n.* the ability to move or be moved freely or easily from one place, job, or social class to another
199. in\_\_\_\_\_ce between gas and liquid                    *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
200. id\_\_\_\_\_fy handwriting                    *v.* to recognize someone or something and say or prove who or what they are
201. achieve am\_\_\_\_\_us goals                    *adj.* having a great desire to attain achievement, power, or wealth
202. am\_\_\_\_\_g advances                    *adj.* extremely surprising, especially in a way that you like or admire
203. manually op\_\_\_\_\_e a machine                    *v.* to work in a particular way; to supervise something
204. de\_\_\_\_e centigrade                    *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
205. ti\_\_\_\_r with the settings                    *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
206. te\_\_\_\_r a horse                    *v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog

ANSWERS: 198. mobility, 199. interface, 200. identify, 201. ambitious, 202. amazing, 203. operate, 204. degree, 205. tinker, 206. tether



217. a sy\_\_\_\_ny orchestra *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
218. not to be seen no\_\_\_\_ys *adv.* at the current time, in comparison to the past
219. de\_\_\_\_er code *v.* to read or understand something that is written in code or in a difficult or obscure way
220. a h\_b of commerce *n.* the central or main part of a particular place, activity, network, etc.; the central part of a car wheel, fan, propeller, etc., through which the shaft or axle passes
221. a penciled sk\_\_\_\_h *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
222. ba\_\_\_\_y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
223. the illative fa\_\_\_\_y of the mind *n.* an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge
224. wi\_\_h-controlled pulley *n.* a mechanical device consisting of a drum or cylinder around which a rope or chain can be wound, typically used for lifting or pulling heavy objects
225. crater r\_m *n.* the edge of something in the shape of a more or less circular object

ANSWERS: 217. symphony, 218. nowadays, 219. decipher, 220. hub, 221. sketch, 222. battery, 223. faculty, 224. winch, 225. rim

226. stuff of science fi\_\_\_\_\_n      *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
227. sta\_\_\_\_\_cs for cancer      *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
228. um\_\_\_\_\_al blood      *n.* relating to a flexible cord-like structure that connects a developing fetus to the placenta in the mother's uterus during pregnancy, called umbilical cord; connected or corresponding closely to something essential, such as a source of nourishment or support
229. ro\_\_r mission      *n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon
230. 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
231. artificial cr\_\_\_\_\_re      *n.* a living being, especially an animal
232. ba\_\_\_\_\_rd angle      *adv.* at, to, or toward the direction or place that is behind or rear
233. I don't care a c\_\_p      *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
234. creative in\_\_\_\_\_on      *n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

ANSWERS: 226. fiction, 227. statistics, 228. umbilical, 229. rover, 230. electrify, 231. creature, 232. backward, 233. chip, 234. intuition

235. a lily b\_\_b *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
236. ro\_\_\_e about the origin *v.* to turn around a central point or axis; to move in a circular path around something
237. im\_\_\_\_\_ry number *adj.* existing only in someone's mind
238. permafrost te\_\_\_\_\_n *n.* the physical features of a piece of land, including hills, valleys, rivers, and forests
239. de\_\_\_\_\_te attention *adj.* very fine, subtle, and pleasing; easily broken or damaged or destroyed
240. a dry ba\_\_\_\_\_y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
241. da\_\_\_\_\_se administrator *n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
242. li\_\_\_\_\_m mining *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
243. electrical c\_\_d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
244. as\_\_\_\_\_le your colleagues *v.* to collect in one place as a single group

ANSWERS: 235. bulb, 236. rotate, 237. imaginary, 238. terrain, 239. delicate, 240. battery, 241. database, 242. lithium, 243. cord, 244. assemble

245. ex\_\_\_\_\_e weather events *adj.* very great in amount or degree
246. exp\_\_\_\_\_tal data *adj.* relating to or based on new ideas, forms, methods, etc. that have not been tried before, usually to find out what effect they have
247. a beautiful sy\_\_\_\_\_ny *n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements
248. al\_\_n the economic interest of each other *v.* to put or arrange two or more things in a straight line or to form a straight line
249. first design sk\_\_\_hes *n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
250. marine ge\_\_\_\_\_st *n.* a scientist or specialist who studies geology
251. a li\_\_\_r equation *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
252. re\_\_t at a high temperature *v.* to take action in response to something
253. m\_r the reputation *v.* to damage or spoil the appearance or surface of something
254. 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: 245. extreme, 246. experimental, 247. symphony, 248. align, 249. sketch, 250. geologist, 251. linear, 252. react, 253. mar, 254. dynamics



255. new op\_\_\_\_l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
256. rear a\_\_e *n.* a rod or spindle around which a wheel or pair of wheels revolves; a central shaft used to transmit power to machinery or vehicles
257. complete a pr\_\_\_\_pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
258. with an unc\_\_\_\_ble face *adj.* providing or feeling physical discomfort or slight pain
259. field of artificial int\_\_\_\_nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
260. 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
261. parched s\_\_l *n.* the top layer of Earth in which plants grow
262. pe\_\_\_\_um swings *n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
263. um\_\_\_\_al hernia *n.* relating to a flexible cord-like structure that connects a developing fetus to the placenta in the mother's uterus during pregnancy, called umbilical cord; connected or corresponding closely to something essential, such as a source of nourishment or support

ANSWERS: 255. optical, 256. axle, 257. prototype, 258. uncomfortable, 259. intelligence, 260. simulate, 261. soil, 262. pendulum, 263. umbilical

264. have a co\_\_\_\_\_t again      *n.* a musical performance given in public by one or more players or singers
265. co\_\_\_\_\_e the value      *v.* to make a mathematical calculation
266. flour made from gr\_\_n      *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
267. nuclear ph\_\_\_\_\_s      *n.* the science of matter and energy and their interactions
268. DC mo\_\_r control      *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
269. anthropology lab\_\_\_\_\_ry      *n.* a workplace for doing scientific research or teaching science; a lab
270. walk ba\_\_\_\_\_rd      *adv.* at, to, or toward the direction or place that is behind or rear
271. poetic me\_\_r      *n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse
272. ch\_\_\_\_\_a mouse      *n.* (in Greek mythology) a fire-breathing creature with a lion's head, a goat's body, and a snake's tail; a thing that is illusory or impossible to achieve
273. a jo\_\_t venture      *adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
274. re\_\_t against his way of thinking      *v.* to take action in response to something

ANSWERS: 264. concert, 265. compute, 266. grain, 267. physics, 268. motor, 269. laboratory, 270. backward, 271. meter, 272. chimera, 273. joint, 274. react

275. horse s\_\_d *n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support
276. a handy ga\_\_t *n.* a small tool or device that is useful for a particular job
277. a good grounding in mat\_\_\_\_\_cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
278. professor of ch\_\_\_\_\_ry *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
279. im\_\_\_\_\_ry pregnancy *adj.* existing only in someone's mind
280. disarm the b\_\_b *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something
281. spinal c\_\_d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
282. pa\_\_\_\_\_e vocabulary *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

ANSWERS: 275. stud, 276. gadget, 277. mathematics, 278. chemistry, 279. imaginary, 280. bomb, 281. cord, 282. passive

283. historical no\_\_l *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
284. determine the fea\_\_\_\_\_ty *n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished
285. t\_\_e a piano *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
286. bl\_\_d to the beauties *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
287. laws of ph\_\_\_\_\_s *n.* the science of matter and energy and their interactions
288. han\_\_\_\_\_ng identification *n.* (also "penmanship") the particular way in which a person writes, as distinct from printing or typing
289. di\_\_\_\_\_er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
290. op\_\_\_\_\_l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
291. pr\_\_\_\_\_s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 283. novel, 284. feasibility, 285. tune, 286. blind, 287. physics, 288.

handwriting, 289. diameter, 290. optical, 291. process

292. mo\_\_\_\_re level *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
293. non-fi\_\_\_\_n bestseller *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
294. tec\_\_\_\_cal advancement *adj.* based on scientific and industrial progress
295. imp\_\_\_\_ve performances *adj.* arousing admiration due to size, quality, or skill
296. 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
297. exit from a l\_\_p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
298. re\_\_\_\_nt local dishes *v.* to change something so drastically that it looks to be completely new
299. new hy\_\_\_\_d system *adj.* composed of different elements or mixed characters
300. leather b\_\_t *v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body
301. gr\_\_n in pain *v.* to make a low, moaning sound, often indicating pain, discomfort, or dissatisfaction

ANSWERS: 292. moisture, 293. fiction, 294. technological, 295. impressive, 296. mechanism, 297. loop, 298. reinvent, 299. hybrid, 300. belt, 301. groan

302. ex\_\_\_\_al factors *adj.* belonging to or situated outside of someone or something
303. l\_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
304. wa\_\_y plan for selling more books *adj.* funny in a slightly odd, peculiar, irregular way
305. 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
306. the most am\_\_\_\_\_g feeling *adj.* extremely surprising, especially in a way that you like or admire
307. ki\_\_\_\_\_c motion *adj.* of or relating to motion or the forces that cause motion
308. de\_\_\_\_\_p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
309. si\_\_\_\_\_e measurement *n.* the act or process of sinking or the state of being sunk; the amount or depth by which something sinks
310. co\_\_\_\_\_t research *v.* to organize and carry out a particular activity
311. have pro\_\_\_\_\_ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
312. hu\_\_\_\_\_id hand *n.* a machine or creature that has a body shape similar to that of a human

ANSWERS: 302. external, 303. lab, 304. wacky, 305. mechanism, 306. amazing, 307. kinetic, 308. develop, 309. sinkage, 310. conduct, 311. prosthetic, 312. humanoid

313. co\_\_\_\_\_nt regulations *adj.* willing to comply with rules, requests, or demands
314. gr\_\_d bargain *adj.* important and large in size, scope, or extent
315. a b\_\_b of jelly *n.* a small amount or drop of a thick liquid or sticky substance
316. a ch\_\_\_\_\_on of peace *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
317. co\_\_\_\_\_nt software *adj.* willing to comply with rules, requests, or demands
318. parallel com\_\_\_\_\_on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
319. cell and molecular bi\_\_\_\_\_y *n.* the scientific study of life and the natural processes of living things
320. a film f\_n *n.* a person who admires and supports a person, group, sport, sports team, etc.; a device for creating a current of air by the movement of a surface or surfaces
321. re\_\_\_e a dying dog *v.* to save someone or something from a dangerous or difficult situation
322. nice fe\_\_\_w *adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
323. int\_\_\_\_\_nt assisting system *adj.* having the capacity for thought and reason, especially to a high degree
324. ex\_\_t control *v.* to put forth effort; to put into action; to bring into play

ANSWERS: 313. compliant, 314. grand, 315. blob, 316. champion, 317. compliant, 318. computation, 319. biology, 320. fan, 321. rescue, 322. fellow, 323. intelligent, 324. exert



325. lab\_\_\_\_\_ry accident *n.* a workplace for doing scientific research or teaching science; a lab
326. the ad\_\_\_\_\_ve coloring *adj.* capable of adjusting to new situations or changing conditions
327. cr\_\_y about cars and racing *adj.* stupid or not sensible; very angry
328. an arrival pl\_\_\_\_\_rm *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
329. ma\_\_\_\_\_l combat *adj.* relating to soldiers or the military; warlike or inclined towards war
330. ta\_\_\_\_\_e stimulation *adj.* relating to the sense of touch; tangible or perceptible through the sense of touch
331. the grand ch\_\_\_\_\_on *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
332. mass sp\_\_\_\_\_or sport *n.* someone present at an event, such as a sports game, play, or concert, to watch or observe it
333. pa\_\_\_\_\_d capacity *n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system
334. tera-he\_\_z radiation *n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals

ANSWERS: 325. laboratory, 326. adaptive, 327. crazy, 328. platform, 329. martial, 330. tactile, 331. champion, 332. spectator, 333. payload, 334. hertz

335. barren of cr\_\_\_\_ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
336. a hat h\_\_k *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
337. medical l\_b *n.* a workplace for the conduct of scientific research; a laboratory
338. op\_\_\_\_\_e 24 hours a day *v.* to work in a particular way; to supervise something
339. biodegradable pa\_\_\_\_\_ng *n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging
340. he\_\_\_\_\_d mechanism *n.* an animal or machine with six legs
341. f\_g marigold *n.* a sweet and soft edible fruit with many seeds or a tree on which these grow
342. the eq\_\_\_\_\_on of poverty with ignorance *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
343. the first round of the com\_\_\_\_\_on *n.* a situation in which someone is attempting to beat or outperform another
344. participation aw\_\_d *n.* a prize or other mark of recognition given in honor of an achievement
345. kin\_\_\_\_\_cs analysis *n.* the branch of mechanics that deals with the motion of objects without considering the forces that cause the motion; the study of the geometric and algebraic properties of motion, such as displacement, velocity, and acceleration

ANSWERS: 335. creative, 336. hook, 337. lab, 338. operate, 339. packaging, 340. hexapod, 341. fig, 342. equation, 343. competition, 344. award, 345. kinematics

346. the mo\_\_o for safe traffic *n.* a phrase or slogan that expresses a guiding principle or goal
347. high ve\_\_\_\_ty *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
348. positive feedback l\_\_p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
349. 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
350. sc\_\_\_\_\_le on paper *v.* to write or draw carelessly and in a hurry
351. an ele\_\_\_\_\_al storm *adj.* relating to electricity
352. an ob\_\_\_\_\_le to progress *n.* a thing that blocks one's way or prevents or hinders progress
353. exp\_\_\_\_\_nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
354. soil si\_\_\_\_\_e *n.* the act or process of sinking or the state of being sunk; the amount or depth by which something sinks
355. lon\_\_\_\_\_ge weather forecast *adj.* relating to or extending over a long distance, period of time, or range of possibilities
356. the st\_\_\_\_\_re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 346. motto, 347. velocity, 348. loop, 349. animation, 350. scribble, 351. electrical, 352. obstacle, 353. experiment, 354. sinkage, 355. long-range, 356. structure

357. an image se\_\_\_r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
358. control re\_\_\_\_ly *adv.* at a distance; not directly or easily accessible
359. en\_\_\_\_\_er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
360. li\_\_\_\_\_m carbonate *n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder
361. ki\_\_\_\_\_c friction *adj.* of or relating to motion or the forces that cause motion
362. motion se\_\_\_r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
363. intraspecific com\_\_\_\_\_on *n.* a situation in which someone is attempting to beat or outperform another
364. ac\_\_\_\_\_e the circuits *v.* to cause a machine or equipment to start to work
365. ex\_\_\_\_\_al commerce *adj.* belonging to or situated outside of someone or something
366. ur\_\_n planning *adj.* relating to or located in a town or city
367. ob\_\_\_\_\_le avoidance *n.* a thing that blocks one's way or prevents or hinders progress

ANSWERS: 357. sensor, 358. remotely, 359. encounter, 360. lithium, 361. kinetic, 362. sensor, 363. competition, 364. actuate, 365. external, 366. urban, 367. obstacle

368. 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
369. hu\_\_\_\_\_id design *n.* a machine or creature that has a body shape similar to that of a human
370. resident al\_\_\_ns *n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere
371. in\_\_\_\_\_e him to write a novel *v.* to make somebody fill with the desire, confidence, or enthusiasm, especially to do something creative
372. control mec\_\_\_\_\_ics apparatuses *n.* technology or a field of science that combines electronics and mechanical engineering
373. ti\_\_\_r with the bill *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
374. ca\_\_\_\_\_te the distance *v.* to judge or find out the amount or number of something by using mathematics
375. severe cr\_\_\_c *n.* someone who expresses opinions about the quality of books, music, etc.
376. source of ins\_\_\_\_\_on *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity

ANSWERS: 368. dynamics, 369. humanoid, 370. alien, 371. inspire, 372. mechatronics, 373. tinker, 374. calculate, 375. critic, 376. inspiration

377. an imp\_\_\_\_\_ve array of facts      *adj.* arousing admiration due to size, quality, or skill
378. official sta\_\_\_\_\_cs      *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
379. mo\_\_\_\_\_nt of troops      *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
380. dem\_\_\_\_\_te mastery      *v.* to display something or give an exhibition to an interested audience
381. re\_\_\_\_\_ly operate      *adv.* at a distance; not directly or easily accessible
382. ab\_\_\_b energy      *v.* to take in a fluid or other substance gradually
383. 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
384. an innovative pr\_\_\_\_\_al      *n.* a formal suggestion or offer, sometimes a written one
385. wet-b\_\_b thermometer      *n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball
386. ca\_\_\_\_\_te his credit score      *v.* to judge or find out the amount or number of something by using mathematics

ANSWERS: 377. impressive, 378. statistics, 379. movement, 380. demonstrate, 381. remotely, 382. absorb, 383. ameba, 384. proposal, 385. bulb, 386. calculate

387. br\_\_\_\_\_nt idea *adj.* extremely clever, skilled, or impressive
388. effect of cosmic r\_ys *n.* a narrow line of light, heat, or another form of energy
389. f\_g tree *n.* a sweet and soft edible fruit with many seeds or a tree on which these grow
390. acc\_\_\_\_\_ter reading *n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
391. young people no\_\_\_\_\_ys *adv.* at the current time, in comparison to the past
392. a particle di\_\_\_\_\_er *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
393. han\_\_\_\_\_ng sample *n.* (also "penmanship") the particular way in which a person writes, as distinct from printing or typing
394. 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
395. ex\_\_\_\_\_ng news *adj.* causing a lot of interest or excitement
396. al\_\_\_\_\_a calculation *n.* a type of mathematics in which signs and letters represent numbers
397. s\_\_ls retentive of moisture *n.* the top layer of Earth in which plants grow

ANSWERS: 387. brilliant, 388. ray, 389. fig, 390. accelerometer, 391. nowadays, 392. diameter, 393. handwriting, 394. cable, 395. exciting, 396. algebra, 397. soil

398. he\_\_\_\_\_d animal *n.* an animal or machine with six legs
399. ant\_\_\_\_\_hic design *adj.* describing or relating to the attribution of human characteristics to non-human entities
400. a qu\_\_\_\_\_ed doctor *adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
401. have ri\_\_\_\_\_us criticism *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
402. translate li\_\_\_\_\_ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
403. s\_\_d dunes *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
404. employee da\_\_\_\_\_se *n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
405. get ins\_\_\_\_\_on from nature *n.* something that motivates or encourages someone to create or achieve something, or a feeling of excitement or creativity
406. have a eu\_\_\_\_a moment *n.* exclamation of triumph on discovering something; realization or sudden insight

ANSWERS: 398. hexapod, 399. anthropomorphic, 400. qualified, 401. rigorous, 402. literally, 403. sand, 404. database, 405. inspiration, 406. eureka



407. the bone of a jo\_\_t      *adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
408. co\_\_\_\_e an average score      *v.* to make a mathematical calculation
409. with an am\_\_\_\_us eye      *adj.* having a great desire to attain achievement, power, or wealth
410. absolutely fa\_\_\_\_ic event      *adj.* extremely good; excellent
411. lot of mo\_\_\_\_re      *n.* small amounts of liquid, especially water, that are present in or absorbed by a substance
412. bu\_\_\_\_in feature      *adj.* included as an integral part of something
413. series of exp\_\_\_\_nts      *n.* the scientific test conducted to observe what happens and gain new knowledge
414. opp\_\_\_\_on campaign      *n.* the act of disagreeing or resisting; the state of strong disagreement
415. dem\_\_\_\_te a difference      *v.* to display something or give an exhibition to an interested audience
416. cruciate li\_\_\_\_nt      *n.* a band of tissue that connects bones or holds organs in place to support and stabilize the body
417. del\_\_\_\_te attempt      *adj.* done with full consciousness of nature and effects rather than by accident
418. mec\_\_\_\_ics design      *n.* technology or a field of science that combines electronics and mechanical engineering
419. gen\_\_\_\_on gap      *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity

ANSWERS: 407. joint, 408. compute, 409. ambitious, 410. fantastic, 411. moisture, 412. built-in, 413. experiment, 414. opposition, 415. demonstrate, 416. ligament, 417. deliberate, 418. mechatronics, 419. generation

420. help ta\_\_\_e climate change      *v.* to try to deal with a complex problem or situation
421. a dy\_\_\_\_c market      *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
422. te\_\_\_\_\_ze the prisoners      *v.* to make someone feel extremely frightened by violence or threats
423. an aut\_\_\_\_\_us judiciary      *adj.* capable of governing or controlling its affairs
424. education h\_b      *n.* the central or main part of a particular place, activity, network, etc.; the central part of a car wheel, fan, propeller, etc., through which the shaft or axle passes
425. time z\_\_e      *n.* a specific area, region, or section that is marked off or defined in some way
426. 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
427. a gr\_\_n of sand      *n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance
428. co\_\_\_\_\_t a background check      *v.* to organize and carry out a particular activity
429. pro\_\_\_\_\_ic limbs      *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

ANSWERS: 420. tackle, 421. dynamic, 422. terrorize, 423. autonomous, 424. hub, 425. zone, 426. robotic, 427. grain, 428. conduct, 429. prosthetic

430. ex\_\_\_\_\_ng football player *adj.* causing a lot of interest or excitement
431. high-precision acc\_\_\_\_\_ter *n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
432. pr\_\_\_\_\_le cause of a fire *adj.* likely to happen or likely to be true
433. ta\_\_\_e the issue *v.* to try to deal with a complex problem or situation
434. scientific jo\_\_\_\_\_l *n.* a newspaper or magazine specialized in a specific topic or profession
435. plastic d\_\_l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
436. dif\_\_\_\_\_ial equation *n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference
437. art\_\_\_\_\_te his position *v.* to express oneself clearly and effectively in spoken or written language
438. a chemical eq\_\_\_\_\_on *n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
439. shout "eu\_\_\_a!" *n.* exclamation of triumph on discovering something; realization or sudden insight

ANSWERS: 430. exciting, 431. accelerometer, 432. probable, 433. tackle, 434. journal, 435. doll, 436. differential, 437. articulate, 438. equation, 439. eureka

440. co\_\_\_\_\_t car *n.* an idea or principle associated with something abstract
441. art\_\_\_\_\_al environment *adj.* not natural and made by human beings; not real but produced to resemble something
442. gu\_\_\_\_\_ee women equality *v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met
443. pr\_\_\_\_\_al English *adj.* of or connected with actual use or real situation rather than with theory and ideas
444. j\_\_k mail *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
445. a dis\_\_\_\_\_ce caused by a terrorist *n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
446. the t\_p of a paintbrush *n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
447. as\_\_\_\_\_le a jigsaw puzzle *v.* to collect in one place as a single group
448. 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: 440. concept, 441. artificial, 442. guarantee, 443. practical, 444. junk, 445. disturbance, 446. tip, 447. assemble, 448. electrify

449. marginal ut\_\_\_\_y                    *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
450. lunar ro\_\_r                            *n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon
451. aff\_\_\_\_\_le solution                *adj.* not expensive and able to pay
452. an interspecific hy\_\_\_\_d              *adj.* composed of different elements or mixed characters
453. ut\_\_\_\_y costs                          *n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
454. ant\_\_\_\_\_hic agent                    *adj.* describing or relating to the attribution of human characteristics to non-human entities
455. bachelor's de\_\_\_\_e                      *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
456. bite his tongue li\_\_\_\_ly                *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
457. pa\_\_\_\_e response                        *adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

ANSWERS: 449. utility, 450. rover, 451. affordable, 452. hybrid, 453. utility, 454. anthropomorphic, 455. degree, 456. literally, 457. passive

458. te\_\_\_\_\_ze boys into shutting up      *v.* to make someone feel extremely frightened by violence or threats
459. no\_\_l effect      *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before
460. the del\_\_\_\_\_te act of provocation      *adj.* done with full consciousness of nature and effects rather than by accident
461. li\_\_\_\_r trend      *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
462. dis\_\_\_\_\_te video content      *v.* to give something to a large number of individuals, or to spread or furnish something
463. the to\_\_c of the book      *n.* a subject that is being discussed or written about
464. re\_\_\_e a company from bankruptcy      *v.* to save someone or something from a dangerous or difficult situation
465. sc\_\_\_\_\_le notes      *v.* to write or draw carelessly and in a hurry
466. a de\_\_\_\_\_te flavor      *adj.* very fine, subtle, and pleasing; easily broken or damaged or destroyed
467. re\_\_\_\_\_nt our life      *v.* to change something so drastically that it looks to be completely new
468. the court se\_\_\_\_\_n      *n.* a formal meeting or series of meetings for the execution of a particular group's functions; a period spent doing a particular activity
469. political pe\_\_\_\_\_um      *n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism

ANSWERS: 458. terrorize, 459. novel, 460. deliberate, 461. linear, 462. distribute, 463. topic, 464. rescue, 465. scribble, 466. delicate, 467. reinvent, 468. session, 469. pendulum

470. loc\_\_\_\_\_on system *n.* the action or ability to move from one place to another
471. sp\_\_k a chain reaction *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
472. uns\_\_\_\_\_red information *adj.* not having a clear organization or arrangement
473. begin to r\_t *v.* to decay, or cause something to decay, naturally and gradually
474. initial ve\_\_\_\_\_ty *n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)
475. lemon-lime s\_\_a *n.* a carbonated soft drink containing a sweetened syrup or flavoring, often used interchangeably with "pop" or "soda pop" in different regions of the world
476. brisk g\_\_t *n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion
477. a mec\_\_\_\_\_al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
478. in\_\_\_\_\_us idea *adj.* showing inventiveness and ability or skill
479. rotational kin\_\_\_\_\_cs *n.* the branch of mechanics that deals with the motion of objects without considering the forces that cause the motion; the study of the geometric and algebraic properties of motion, such as displacement, velocity, and acceleration

ANSWERS: 470. locomotion, 471. spark, 472. unstructured, 473. rot, 474. velocity, 475. soda, 476. gait, 477. mechanical, 478. ingenious, 479. kinematics

480. cr\_\_\_\_re of habit *n.* a living being, especially an animal
481. full or\_\_\_\_ra *n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
482. b\_\_t him in the face *v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

ANSWERS: 480. creature, 481. orchestra, 482. belt



## Session 3: Fill in the Blanks

1. 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
2. The \_\_\_\_\_ clock was a familiar sight in the old house.  
*n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
3. We need to \_\_\_\_\_ the next steps for the project during our meeting tomorrow.  
*v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
4. He is the kind of \_\_\_\_\_ who only works for his success.  
*adj.* someone who has the same job or interests as you, or is in the same class, profession, or situation as you
5. She falls over \_\_\_\_\_ when she sees her mother-in-law.  
*adv.* at, to, or toward the direction or place that is behind or rear
6. They have tried to \_\_\_\_\_ their grocery stores.  
*v.* to change something so drastically that it looks to be completely new
7. 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
8. Each department has done its product costing \_\_\_\_\_.  
*adv.* separately or apart from others

ANSWERS: 1. rescue, 2. pendulum, 3. discuss, 4. fellow, 5. backward, 6. reinvent, 7. ameba, 8. individually

9. The \_\_\_\_\_ of the dancers on stage was graceful and elegant.  
*n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
10. The firm has grown into a large \_\_\_\_\_ manufacturing.  
*adj.* relating to or connected with chemistry;
11. 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
12. 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
13. Our skeleton outline of the \_\_\_\_\_ met with much opposition.  
*n.* a formal suggestion or offer, sometimes a written one
14. I advised him to \_\_\_\_\_ to his new surroundings.  
*v.* to make fit for or change to suit a new purpose or environment
15. A desire for success \_\_\_\_\_ her.  
*v.* to cause a machine or equipment to start to work
16. She enjoyed watching the game as a \_\_\_\_\_.  
*n.* someone present at an event, such as a sports game, play, or concert, to watch or observe it
17. He spent the afternoon \_\_\_\_\_ with his car engine.  
*v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

ANSWERS: 9. movement, 10. chemical, 11. rotates, 12. cliff, 13. proposal, 14. adapt, 15. actuated, 16. spectator, 17. tinkering

18. I found the kitchen \_\_\_\_\_ that will serve as a bottle opener in the store.

*n.* a small tool or device that is useful for a particular job

19. Actuators convert \_\_\_\_\_ pulses into motion.

*adj.* relating to electricity

20. I tried to \_\_\_\_\_ the efficiency of the investment.

*v.* to make a mathematical calculation

21. The company can \_\_\_\_\_ access its employees' computers for troubleshooting purposes.

*adv.* at a distance; not directly or easily accessible

22. The \_\_\_\_\_ data took a lot of work to analyze and interpret.

*adj.* not having a clear organization or arrangement

23. The findings of the experiment were both \_\_\_\_\_ and unexpected.

*adj.* causing a lot of interest or excitement

24. The sponge \_\_\_\_\_ water well.

*v.* to take in a fluid or other substance gradually

25. The older woman's \_\_\_\_\_ was slow and unsteady.

*n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion

26. He won the \_\_\_\_\_ for best actor at the film festival.

*n.* a prize or other mark of recognition given in honor of an achievement

ANSWERS: 18. gadget, 19. electrical, 20. compute, 21. remotely, 22. unstructured, 23. exciting, 24. absorbs, 25. gait, 26. award

27. The company's \_\_\_\_\_ is "Innovation and Service," which is reflected in its products and customer support.

*n.* a phrase or slogan that expresses a guiding principle or goal

28. The unique style of this martial arts \_\_\_\_\_ many action film producers.

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

29. A \_\_\_\_\_ engineer is still in demand in many companies.

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

30. The light \_\_\_\_\_ has burned out.

*n.* a rounded underground storage organ of some plants from which the plant grows; the rounded part of a cylindrical structure; electric lamp consisting of a glass ball

31. Your spinal \_\_\_\_\_ is located deep within your body.

*n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

32. The \_\_\_\_\_ learning system adjusts the difficulty level of the lessons based on the student's performance.

*adj.* capable of adjusting to new situations or changing conditions

33. 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

ANSWERS: 27. motto, 28. inspired, 29. mechanical, 30. bulb, 31. cord, 32. adaptive, 33. dynamics

34. I always look forward to reading his stories since they're so \_\_\_\_\_.

*adj.* showing inventiveness and ability or skill

35. The rain and thunder are \_\_\_\_\_ today.

*adj.* stupid or not sensible; very angry

36. The \_\_\_\_\_ for the fragile items was made of sturdy materials and could withstand rough handling during shipping.

*n.* the process, materials, or container used to wrap or contain a product for distribution, storage, or sale; the design or appearance of a product's packaging

37. Each country's officials can access the central \_\_\_\_\_.

*n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily

38. "\_\_\_\_\_ he exclaimed, finally solving the problem.

*n.* exclamation of triumph on discovering something; realization or sudden insight

39. The project's \_\_\_\_\_ made it difficult for the team to complete it on time.

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

40. I will introduce you to how to \_\_\_\_\_ the leading causes of the malfunction.

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

41. Some studies suggest that people's \_\_\_\_\_ can be influenced by their experiences and biases.

*n.* the ability to understand or know something without reasoning or evidence; a feeling that guides a person to do or believe something without fully understanding why

ANSWERS: 34. ingenious, 35. crazy, 36. packaging, 37. database, 38. Eureka!", 39. complexity, 40. identify, 41. intuitions

42. He \_\_\_\_\_ jumped out of his chair when he heard the news.

*adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

43. I'm a big \_\_\_\_ of French food.

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

44. The \_\_\_\_\_ cord is a vital lifeline between a mother and her unborn baby.

*n.* relating to a flexible cord-like structure that connects a developing fetus to the placenta in the mother's uterus during pregnancy, called umbilical cord; connected or corresponding closely to something essential, such as a source of nourishment or support

45. This machine is too difficult to \_\_\_\_\_ for me.

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

46. The \_\_\_\_\_ leader inspired others to join the fight for freedom and democracy.

*adj.* relating to or characterized by a complete or dramatic change

47. The band was \_\_\_\_\_ out old songs in response to audience requests.

*v.* to sing loudly and forcefully; to hit someone or something hard; (noun) a strip of leather or other material worn to tie or buckle something around the body

48. The hiker \_\_\_\_\_ their dog to a tree while they camped for the night.

*v.* to tie or secure an animal, person, or object with a rope, chain, or other similar devices to prevent it from moving too far away; (noun) a rope or chain used to tie up or restrain an animal, such as a horse or dog

ANSWERS: 42. literally, 43. fan, 44. umbilical, 45. operate, 46. revolutionary, 47. belting, 48. tethered

49. Draw a circle five centimeters in \_\_\_\_\_.
- n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
50. The company holds patents on core components of \_\_\_\_\_ jet printers.
- n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
51. The \_\_\_\_\_ on the note was barely legible.
- n.* (also "penmanship") the particular way in which a person writes, as distinct from printing or typing
52. Please tell me how to \_\_\_\_\_ this computer.
- v.* to influence or control something or someone to your advantage, often in an unfair or dishonest way
53. The \_\_\_\_\_ bicyclist outrode all his competitors.
- n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
54. I'm prepared to \_\_\_\_\_ challenges throughout this adventure.
- v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
55. The golfer recorded an \_\_\_\_\_ distance.
- adj.* extremely surprising, especially in a way that you like or admire
56. Please refrigerate the meat, or it will \_\_\_\_\_.
- v.* to decay, or cause something to decay, naturally and gradually

ANSWERS: 49. diameter, 50. laser, 51. handwriting, 52. manipulate, 53. champion, 54. encounter, 55. amazing, 56. rot

57. Despite its advanced science and technology, the empire was \_\_\_\_\_ about invasion.

*adj.* done with full consciousness of nature and effects rather than by accident

58. It seems \_\_\_\_\_ that he has forgotten our scheduled meeting.

*adj.* likely to happen or likely to be true

59. One such rapidly growing \_\_\_\_\_ is quantum cryptography.

*n.* an idea or principle associated with something abstract

60. She has \_\_\_\_\_ habits.

*adj.* clean or tidy, with everything in its place

61. 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

62. 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

63. The new amusement park ride was \_\_\_\_\_ with twists, turns, and drops that left riders screaming with excitement.

*adj.* extremely good; excellent

64. The use of cluster \_\_\_\_\_ is strictly prohibited by international law.

*n.* a weapon that explodes and is used to kill or injure people or to cause damage to something

ANSWERS: 57. deliberate, 58. probable, 59. concept, 60. neat, 61. motors, 62. humanoid, 63. fantastic, 64. bombs



65. 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

66. 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

67. 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

68. The \_\_\_\_\_ sensation of the fabric was soft and smooth to the touch.

- adj.* relating to the sense of touch; tangible or perceptible through the sense of touch

69. The speaker mounted the \_\_\_\_\_ and started to speak.

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

70. Police will \_\_\_\_\_ random breath testing for drunk driving.

- v.* to organize and carry out a particular activity

71. He has a flair for \_\_\_\_\_.

- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

72. All the supervisor has to do is assign tasks that make his subordinates more \_\_\_\_\_.

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

ANSWERS: 65. magic, 66. generation, 67. lifted, 68. tactile, 69. platform, 70. conduct, 71. mathematics, 72. creative

73. This airport has taken the first step to become an international \_\_\_\_ airport.
- n.* the central or main part of a particular place, activity, network, etc.; the central part of a car wheel, fan, propeller, etc., through which the shaft or axle passes
74. I need to clear out some of the \_\_\_\_ in my garage.
- n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
75. The \_\_\_\_\_ of the device was immediately apparent to all who saw it.
- n.* the state or quality of being useful or convenient; the service, such as electric power or water or transportation, provided by a public
76. She was nearly \_\_\_\_\_ due to severe diabetes.
- adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
77. 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
78. I am going to trim this \_\_\_\_ off.
- n.* a plant growing thickly with many small branches and several stiff stems coming up from the root
79. People can clone a sheep \_\_\_\_\_.
- adv.* at the current time, in comparison to the past
80. He discovered unique \_\_\_\_\_ for photochemical reactions.
- n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

ANSWERS: 73. hub, 74. junk, 75. utility, 76. blind, 77. cables, 78. bush, 79. nowadays, 80. mechanisms

81. The \_\_\_\_\_ in the knee provide stability and support.
- n.* a band of tissue that connects bones or holds organs in place to support and stabilize the body
82. He is familiar with \_\_\_\_\_ and biology.
- n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
83. Only a small number of \_\_\_\_\_ utilities offer sanitation services.
- adj.* relating to or located in a town or city
84. Researchers at that university's \_\_\_\_\_ laboratory have launched a humanoid robot startup.
- n.* technology or a field of science that combines electronics and mechanical engineering
85. This university's computer science \_\_\_\_\_ is world distinguished.
- n.* an inborn or natural ability to hear, see, think, move, etc.; a department or group of the university concerned with a major division of knowledge
86. The \_\_\_\_\_ for the rocket launch included several satellites and scientific instruments.
- n.* the amount of cargo or goods that a vehicle or equipment is designed to carry or transport; in computing, the amount of data that can be transmitted over a communication system
87. The \_\_\_\_\_ river snaked through the lush forest.
- adj.* characterized by twists, turns, or curves shaped like a snake; sly, cunning, or devious in behavior or expression

ANSWERS: 81. ligaments, 82. chemistry, 83. urban, 84. mechatronics, 85. faculty, 86. payload, 87. serpentine

88. 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
89. The president began to \_\_\_\_\_ an army.  
*v.* to collect in one place as a single group
90. Advocates for legal reform hear less harsh words from their \_\_\_\_\_.  
*n.* someone who expresses opinions about the quality of books, music, etc.
91. This building construction causes serious \_\_\_\_\_ to residents.  
*n.* something that interrupts a settled and peaceful condition or that makes someone feel nervous or worried
92. I'm craving a cold \_\_\_\_\_ to quench my thirst.  
*n.* a carbonated soft drink containing a sweetened syrup or flavoring, often used interchangeably with "pop" or "soda pop" in different regions of the world
93. 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
94. The mule is a \_\_\_\_\_ between a male donkey and a female horse.  
*adj.* composed of different elements or mixed characters
95. He couldn't \_\_\_\_\_ the actual value of the artwork.  
*v.* to judge or find out the amount or number of something by using mathematics

ANSWERS: 88. robotic, 89. assemble, 90. critics, 91. disturbance, 92. soda, 93. electrify, 94. hybrid, 95. calculate

96. We must \_\_\_\_ ourselves of pollution.

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

97. Detergent weakens the surface tension at the \_\_\_\_\_ of two liquids.

- n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

98. The frequent performances of the \_\_\_\_\_ prove its popularity.

- n.* a long musical composition in Western classical music for orchestra, usually with three or four main parts called movements

99. The words were \_\_\_\_\_ in pencil.

- v.* to write or draw carelessly and in a hurry

100. His \_\_\_\_\_ posturing was just a cover for his insecurities and lack of confidence.

- adj.* characterized by a strong sense of masculinity or male dominance, often in a way that is perceived as arrogant or aggressive

101. That \_\_\_\_\_ group actively advocated environmental protection to the government.

- n.* a large area inside the entrance of a public building where people can meet and wait; a group of people who try to persuade a politician, the government, or an official group to influence legislation

102. \_\_\_\_\_ advances have disrupted many industries.

- adj.* based on scientific and industrial progress

103. After the summit meeting, the prime ministers issued a \_\_\_\_\_ statement.

- adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton

ANSWERS: 96. rid, 97. interface, 98. symphony, 99. scribbled, 100. macho, 101. lobby, 102. Technological, 103. joint

104. The sight of the huge pile of laundry made me \_\_\_\_\_ with dread.

- v.* to make a low, moaning sound, often indicating pain, discomfort, or dissatisfaction

105. She was able to \_\_\_\_\_ her argument in the debate clearly.

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

106. The \_\_\_\_\_ robot was designed to have a human-like appearance.

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

107. 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

108. The researcher demonstrated the superiority of quantum \_\_\_\_\_ in several mathematical tasks.

- n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator

109. The scratches on the car \_\_\_\_\_ its otherwise perfect appearance.

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

110. How did he \_\_\_\_\_ to your idea?

- v.* to take action in response to something

111. 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: 104. groan, 105. articulate, 106. anthropomorphic, 107. simulate, 108. computation, 109. marred, 110. react, 111. inspiration

112. He bought a new \_\_\_\_\_ to attach the strap to his watch.

- n.* a small object with a head on one end and a sharp point on the other, used for fastening clothing, leather, or other materials; an animal used for breeding, typically a male horse or bull that is of superior breeding stock; (verb) to decorate or adorn with studs; to provide with studs for support

113. The rain rapidly soaked into the \_\_\_\_\_ soil.

- adj.* covered with or containing sand; (especially of hair color) pale yellowish to yellowish brown

114. We cannot \_\_\_\_\_ enough raw material sources.

- v.* to promise something will happen formally, especially that certain conditions about a product, service, or transaction would be met

115. A \_\_\_\_\_ of ink fell on the floor.

- n.* a small amount or drop of a thick liquid or sticky substance

116. Both parties are now entirely ideologically \_\_\_\_\_.

- v.* to put or arrange two or more things in a straight line or to form a straight line

117. 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

118. His abusive words made me \_\_\_\_\_.

- adj.* providing or feeling physical discomfort or slight pain

119. The \_\_\_\_\_ on the wall showed that the room was three meters long.

- n.* a device used to measure the amount of a particular substance or attribute, such as length, volume, or time; (prosody) the accent in a metrical foot of verse

ANSWERS: 112. stud, 113. sandy, 114. guarantee, 115. blob, 116. aligned, 117. prototype, 118. uncomfortable, 119. meter

120. The manufacturer tested the \_\_\_\_\_ on the truck to ensure they were durable enough to handle heavy loads.

*n.* a rod or spindle around which a wheel or pair of wheels revolves; a central shaft used to transmit power to machinery or vehicles

121. He \_\_\_\_\_ himself to lift the heavyweight.

*v.* to put forth effort; to put into action; to bring into play

122. 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

123. Truth is stranger than \_\_\_\_\_.

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

124. We must consume dietary \_\_\_\_\_ to maintain good health.

*n.* thread or filament used to make a vegetable tissue, mineral material, or textile

125. A \_\_\_\_\_ study is necessary to determine if a project is viable and worthwhile.

*n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished

126. The criminal gang \_\_\_\_\_ innocent people.

*v.* to make someone feel extremely frightened by violence or threats

127. When a company discloses information to the market, an \_\_\_\_\_ auditor verifies them.

*adj.* belonging to or situated outside of someone or something

ANSWERS: 120. axles, 121. exerted, 122. environment, 123. fiction, 124. fiber, 125. feasibility, 126. terrorized, 127. external



128. The human ear can detect sounds with frequencies ranging from 20 to 20,000 \_\_\_\_\_.
- n.* the unit of frequency, equal to one cycle per second, often used to describe the frequency of electromagnetic waves or electronic signals
129. The military uses \_\_\_\_\_ missiles to hit targets from far away.
- adj.* relating to or extending over a long distance, period of time, or range of possibilities
130. The mobile application industry is \_\_\_\_\_ changing.
- adv.* all the time
131. Yesterday, I created a rough \_\_\_\_\_ of the plan.
- n.* a simple, quickly-made picture that does not have many details; a short descriptive summary of something
132. In this class, you will learn how to solve quadratic \_\_\_\_\_.
- n.* the act of regarding as equal; (mathematics) a statement that expresses the equality of two expressions by connecting them with the equals sign
133. Five of the six provinces will become \_\_\_\_\_ regions under the new federal system of government.
- adj.* capable of governing or controlling its affairs
134. Little children tend to have \_\_\_\_\_ friends.
- adj.* existing only in someone's mind
135. The \_\_\_\_\_ of the robotic arm was smooth and precise.
- n.* the action or ability to move from one place to another

ANSWERS: 128. hertz, 129. long-range, 130. constantly, 131. sketch, 132. equations, 133. autonomous, 134. imaginary, 135. locomotion

136. We seek a person \_\_\_\_\_ for the post.

*adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job

137. We must \_\_\_\_\_ a new system to streamline our workflow and increase efficiency.

*v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

138. Efficiency isn't an essential \_\_\_\_\_ here; fairness is.

*n.* a fundamental law or truth that explains or controls how something happens or works

139. \_\_\_\_\_ batteries are commonly used in laptops, smartphones, and electric vehicles.

*n.* a soft, silvery-white metal that is highly reactive and used in batteries, alloy production, and medications for bipolar disorder

140. The \_\_\_\_\_ has largely gotten positive feedback.

*n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

141. 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

142. The \_\_\_\_\_ will repair my telephone tomorrow morning.

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

ANSWERS: 136. qualified, 137. develop, 138. principle, 139. Lithium-ion, 140. novel, 141. decide, 142. engineer

143. The way he manages his employees is extremely \_\_\_\_\_.

*adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate

144. This year's \_\_\_\_\_ gathering will be held in Canada.

*adj.* important and large in size, scope, or extent

145. He studied the \_\_\_\_\_ of radiation.

*n.* the science of matter and energy and their interactions

146. He needed to \_\_\_\_\_ with structural reforms to improve the company's revenue.

*v.* to make a strenuous effort to solve a problem; to engage in a close fight or conflict without weapons

147. The government is determined to \_\_\_\_\_ sharp inflation.

*v.* to try to deal with a complex problem or situation

148. The Prime Minister will pay a courtesy visit to the Nobel laureate's \_\_\_\_\_.

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

149. The \_\_\_\_\_ in the room was palpable as the team waited for their leader to speak.

*n.* a state of mental or emotional strain or excitement; the state of being stretched tight

150. She \_\_\_\_\_ the files into a single ZIP archive to save space on her computer.

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

ANSWERS: 143. rigorous, 144. grand, 145. physics, 146. grapple, 147. tackle, 148. lab, 149. tension, 150. compressed

151. 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

152. The two countries pledged to maintain the \_\_\_\_\_ between their two currencies.

*n.* an amount, value, or size of the difference between things that are compared; (adjective) relating to or showing a difference

153. The automaker has been providing \_\_\_\_\_ car financing options since last year.

*adj.* not expensive and able to pay

154. The \_\_\_\_\_ robot was able to move in multiple directions.

*n.* an animal or machine with six legs

155. The company is committed to being \_\_\_\_\_ with industry regulations.

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

156. The car was completely \_\_\_\_\_ in the accident.

*v.* to press it firmly, usually with your hands or a tool, so that it becomes flat or smaller

157. She increased her \_\_\_\_\_ by planning out her tasks for the day.

*n.* the state or quality of being productive; the rate at which a company or individual produces goods or services, often measured in terms of output per unit of input, such as labor, capital, or time

158. The skin of a snake is remarkably \_\_\_\_\_ allowing it to slither through tight spaces.

*adj.* flexible, resilient, or adaptable; (noun) a stretchy material or band that can be stretched and then returned to its original shape; something that is flexible and adaptable

ANSWERS: 151. strides, 152. differential, 153. affordable, 154. hexapod, 155. compliant, 156. crushed, 157. productivity, 158. elastic,

159. \_\_\_\_\_ walking encouraged the further evolution of humankind.

*n.* an animal with two feet

160. My hair looks greasy because there is too much \_\_\_\_\_ in the air.

*n.* small amounts of liquid, especially water, that are present in or absorbed by a substance

161. The \_\_\_\_\_ of the car was too fast for the road conditions.

*n.* the rate of change of an object's position with respect to time, often measured in meters per second (m/s)

162. We can use this campaign as a bargaining \_\_\_\_\_ in the negotiations.

*n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

163. He spent hours trying to \_\_\_\_\_ the ancient text.

*v.* to read or understand something that is written in code or in a difficult or obscure way

164. The soccer team won the \_\_\_\_\_ after a hard-fought competition.

*n.* an object or prize, such as a cup or plaque, awarded to the winner of a competition or contest

165. She received her \_\_\_\_\_ in psychology from the university.

*n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

166. \_\_\_\_\_ moisture is another significant component controlling soil respiration.

*n.* the top layer of Earth in which plants grow

ANSWERS: 159. Biped, 160. moisture, 161. velocity, 162. chip, 163. decipher, 164. trophy, 165. degree, 166. Soil

167. The \_\_\_\_\_ energy of the falling object increased as it fell.

*adj.* of or relating to motion or the forces that cause motion

168. This country \_\_\_\_\_ its weapons in the east region.

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

169. \_\_\_\_\_ species have drastically altered the ecosystem in this area.

*n.* a person who comes from a different country, race, or group; a form of life assumed to exist outside the Earth or its atmosphere

170. 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

171. The \_\_\_\_\_ course was challenging but fun.

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

172. The \_\_\_\_\_ party strongly disagreed with the government's proposed legislation.

*n.* the act of disagreeing or resisting; the state of strong disagreement

173. The \_\_\_\_\_ on Mars is gathering data on the planet's surface and sending it back to Earth.

*n.* a vehicle designed to travel over rough terrain, especially on the surface of a planet or moon

174. The \_\_\_\_\_ illusion made it appear like the building was floating in midair.

*adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 167. kinetic, 168. deployed, 169. Alien, 170. biology, 171. obstacle, 172. opposition, 173. rover, 174. optical

175. The \_\_\_\_\_ approach taken by the government towards climate change is concerning.

*adj.* characterized by a lack of activity or initiative; not actively participating or engaging in something; marked by a tendency to accept things without resistance or opposition

176. 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

177. Global \_\_\_\_\_ is rising in virtually every industry.

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

178. Solar gravity creates \_\_\_\_\_ pressures and temperatures.

*adj.* very great in amount or degree

179. Many people in this city use the \_\_\_\_\_ railway for transportation.

*n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

180. The \_\_\_\_\_ of the discussion was the current state of the economy.

*n.* a subject that is being discussed or written about

181. The bankruptcy of the giant conglomerate \_\_\_\_\_ turmoil in the stock market.

*v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity

182. His classmates were laboring with advanced \_\_\_\_\_.

*n.* a type of mathematics in which signs and letters represent numbers

ANSWERS: 175. passive, 176. battery, 177. competition, 178. extreme, 179. loop, 180. topic, 181. sparked, 182. algebra

183. Many companies employ \_\_\_\_\_ as a good way of generating innovative ideas.
- n.* a group activity or business method in which a group of people meet and think about something at the same time to solve a problem or to create good ideas
184. The band played a beautiful \_\_\_\_\_ on their instruments.
- n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
185. Construction workers use a \_\_\_\_\_ mechanism to lift heavy materials to higher floors.
- n.* a mechanical device consisting of a drum or cylinder around which a rope or chain can be wound, typically used for lifting or pulling heavy objects
186. The captain told him to \_\_\_\_\_ the ship north.
- v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
187. Parliament is now in \_\_\_\_\_.
- n.* a formal meeting or series of meetings for the execution of a particular group's functions; a period spent doing a particular activity
188. The more \_\_\_\_\_ you are, the more people around you look at you with envy and jealousy.
- adj.* extremely clever, skilled, or impressive
189. His \_\_\_\_\_ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
190. The \_\_\_\_\_ on the beach was warm and golden.
- n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action

ANSWERS: 183. brainstorming, 184. tune, 185. winch, 186. steer, 187. session, 188. brilliant, 189. experiments, 190. sand



191. 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
192. He \_\_\_\_\_ when he heard that he had been accepted into the university.
- v.* to turn over into a different position quickly; to throw or toss with a light motion
193. He got an electric \_\_\_\_\_ at work.
- n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
194. Gamma \_\_\_\_\_ penetrate body tissues and cause cell damage.
- n.* a narrow line of light, heat, or another form of energy
195. The accomplished \_\_\_\_\_ will give two more performances this week.
- n.* a large group of musicians who play classical music together, usually with instruments such as strings, woodwinds, brass, and percussion
196. The spider can \_\_\_\_\_ multiple different silk proteins.
- v.* to combine a substance to make a more complex product or compound
197. The ship's \_\_\_\_\_ resulted from the heavy cargo it was carrying.
- n.* the act or process of sinking or the state of being sunk; the amount or depth by which something sinks
198. He had a good \_\_\_\_\_ of the city and could easily find his way around.
- n.* knowledge, perception, understanding, or range of sight; (verb) to be aware of or know

ANSWERS: 191. animation, 192. flipped, 193. shock, 194. rays, 195. orchestra, 196. synthesize, 197. sinkage, 198. ken

199. This automatic door could no longer be opened due to a \_\_\_\_\_ failure.

*n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

200. The sprinter has a \_\_\_\_\_ way of running.

*adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

201. Animal \_\_\_\_\_ are created by combining multiple fertilized eggs.

*n.* (in Greek mythology) a fire-breathing creature with a lion's head, a goat's body, and a snake's tail; a thing that is illusory or impossible to achieve

202. We are developing plant-derived \_\_\_\_\_ to reduce environmental impact.

*n.* a substance composed of macromolecules (= large groups of atoms) made from many smaller and simpler molecules

203. The \_\_\_\_\_ for applying for a visa can be lengthy and complicated.

*n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

204. The \_\_\_\_\_ of the machine must follow strict safety protocols.

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

205. The raising of interest rates \_\_\_\_\_ the inflation rate.

*v.* to become or cause to become steady or unlikely to give way

ANSWERS: 199. sensor, 200. dynamic, 201. chimeras, 202. polymers, 203. process, 204. operator, 205. stabilizes

206. Numerous great professional sports \_\_\_\_\_ have come from this city.

*n.* a natural ability to be good at something; someone who has a natural ability to be good at something

207. \_\_\_\_\_ 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

208. How can you \_\_\_\_\_ that the earth is a sphere?

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

209. The mountainous \_\_\_\_\_ was rough and rocky.

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

210. People tend to make \_\_\_\_\_ predictions.

*adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

211. We want to \_\_\_\_\_ a schedule for the investigation.

*v.* to bring the different parts of the activity and the people into an organized, ordered, or efficient relationship; (adjective) of equal importance, rank, or degree

212. The physician is reading the \_\_\_\_\_ related to medicine

*n.* a newspaper or magazine specialized in a specific topic or profession

213. Animal protection groups call for an end to animal testing in a \_\_\_\_\_.

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

ANSWERS: 206. talents, 207. Intelligent, 208. demonstrate, 209. terrain, 210. linear, 211. coordinate, 212. journals, 213. laboratory

214. He was reluctant to leave his comfort \_\_\_\_\_ and try something new.  
*n.* a specific area, region, or section that is marked off or defined in some way
215. The phone's \_\_\_\_\_ measures its movement and orientation in three-dimensional space.  
*n.* a device that measures acceleration or changes in motion, typically used in aerospace, automotive, and other engineering applications to monitor and control movement or to measure things like speed or vibration
216. 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
217. His friend was a pretty wild and \_\_\_\_\_ character.  
*adj.* funny in a slightly odd, peculiar, irregular way
218. The water level was even with the basin's \_\_\_\_\_.  
*n.* the edge of something in the shape of a more or less circular object
219. The antique \_\_\_\_\_ was worth thousands of dollars.  
*n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
220. His estate was \_\_\_\_\_ to his sons.  
*v.* to give something to a large number of individuals, or to spread or furnish something
221. Her concept is highly \_\_\_\_\_ and helpful.  
*adj.* of or connected with actual use or real situation rather than with theory and ideas

ANSWERS: 214. zone, 215. accelerometer, 216. mobility, 217. wacky, 218. rim, 219. doll, 220. distributed, 221. practical

222. New \_\_\_\_\_ joints are less prone to metal poisoning.

*adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

223. The deep sea \_\_\_\_\_ was unlike anything the scientists had ever seen before.

*n.* a living being, especially an animal

224. He ate the dried \_\_\_\_\_ he had preserved.

*n.* a sweet and soft edible fruit with many seeds or a tree on which these grow

225. I will introduce some \_\_\_\_\_ on learning English in this class.

*n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

226. Ordinary air purifiers cannot adequately remove pollen \_\_\_\_\_.

*n.* wheat or any other small hard seeds used as a food; a relatively small granular particle of a substance

227. The organizational \_\_\_\_\_ of start-ups is often flat and straightforward.

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

228. The fresh green trees cast a \_\_\_\_\_ web of shadows over the lawn.

*adj.* very fine, subtle, and pleasing; easily broken or damaged or destroyed

229. This artist always packs the \_\_\_\_\_ halls.

*n.* a musical performance given in public by one or more players or singers

ANSWERS: 222. prosthetic, 223. creature, 224. figs, 225. tips, 226. grains, 227. structure, 228. delicate, 229. concert

230. The \_\_\_\_\_ intelligence system has revolutionized the way we live and work.  
*adj.* not natural and made by human beings; not real but produced to resemble something
231. Please hang your towel on a \_\_\_\_\_.  
*n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
232. Their company has been in business for a short time but has \_\_\_\_\_ goals.  
*adj.* having a great desire to attain achievement, power, or wealth
233. In terms of \_\_\_\_\_ he was head and shoulders above his classmates.  
*n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
234. These issues baffled \_\_\_\_\_ for many years.  
*n.* a scientist or specialist who studies geology
235. The new car had a \_\_\_\_\_ navigation system.  
*adj.* included as an integral part of something
236. The budget reduction was an \_\_\_\_\_ feat for our nation.  
*adj.* arousing admiration due to size, quality, or skill
237. The \_\_\_\_\_ equations he used accurately predicted the object's future position.  
*n.* the branch of mechanics that deals with the motion of objects without considering the forces that cause the motion; the study of the geometric and algebraic properties of motion, such as displacement, velocity, and acceleration

ANSWERS: 230. artificial, 231. hook, 232. ambitious, 233. intelligence, 234. geologists, 235. built-in, 236. impressive, 237. kinematics

238. The \_\_\_\_\_ demonstrate that poverty and unemployment are genuine problems.

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

239. The \_\_\_\_\_ arts teacher instructed the students in self-defense techniques.

*adj.* relating to soldiers or the military; warlike or inclined towards war

240. The product is still in the \_\_\_\_\_ stage.

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

241. I had an \_\_\_\_\_ feeling that I might be pregnant.

*adj.* obtained through feelings rather than facts or proof

ANSWERS: 238. statistics, 239. martial, 240. experimental, 241. intuitive