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Vocabulary Builder Reference from...

Geoffrey West: The surprising math of cities and corporations | TED Talk

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

All Words

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Session 1: Word List

crucible

n. a vessel made of ceramic, metal, or other materials used for melting or fusing substances at high temperatures; a difficult or trying experience that tests one's character or resilience

synonym : melting pot, cauldron, furnace

(1) electric **crucible** furnace, (2) fire **crucible**

The scientific experiment required the use of a high-temperature **crucible**.

civilization

n. a complex and highly organized society that has developed over time and has a dominant culture, including features such as language, religion, government, technology, and social customs

synonym : society, culture, community

(1) **civilization** decline, (2) lost **civilization**

The rise and fall of **civilizations** can be studied through history and archaeology.

expand

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

synonym : extend, grow, boost

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

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

urbanization

n. the process of population growth and physical expansion of cities, often involving increased migration from rural areas and the development of urban infrastructure and culture

synonym: urban development, urban growth, urban expansion

(1) **urbanization** process, (2) non- **urbanization** area

Rapid **urbanization** has led to many environmental and social issues in cities.

exponential

adj. becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

planet

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

synonym: earth, world, globe

(1) **planet** like the Earth, (2) save the **planet**

Mercury is the closest **planet** to the sun.

dominate

v. to have or control a lot of power and influence over somebody or something

synonym: govern, rule, prevail

(1) **dominate** possession, (2) **dominate** over the weak

The perspective of his right brain **dominates** his consciousness.

origin

n. the first existence or beginning of something

synonym: root, source, ancestor

(1) **origin** of information, (2) racial **origin**

There are various hypotheses concerning the **origin** of life.

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**.

pollution

n. the introduction of harmful substances or waste into the natural environment that causes adverse change

synonym: corrosion, deterioration, corruption

(1) environmental **pollution**, (2) high levels of air **pollution**

The **pollution** is endangering the local plants and animals.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym: illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

finance

n. the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

synonym: banking, investment, fund

(1) **finance** act, (2) manage my **finances**

Our company decided to hire an advisor who specializes in **finance**.

economy

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

synonym: finance, trade, business

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

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

confront

v. to face, meet or deal with a problem or difficult situation or person

synonym : engage, encounter, contend

(1) **confront** a global warming, (2) **confront** the issue

He finally decided to **confront** problems directly.

tsunami

n. a huge ocean wave caused by an earthquake, volcano, or other disturbance

synonym : tidal wave, seismic sea wave

(1) **tsunami** warning, (2) **tsunami** relief

The earthquake- **tsunami** caused widespread destruction along the coast.

sustainable

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

synonym : continuable, enduring, tolerable

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

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

quest

n. a long or challenging search for something

synonym : exploration, inquisition, pursuit

(1) the **quest** for truth, (2) on a **quest** for happiness

That adventurer traveled in **quest** of buried treasure.

reflection

n. the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface

synonym : contemplation, meditation, consideration

(1) **reflection** question, (2) photon **reflection**

The teacher asked the students to write a **reflection** on the book they had just read.

numb

adj. unable to feel physical sensation and movement; not showing human feeling or sensitivity

synonym : dazed, insensitive, emotionless

(1) **numb** with cold, (2) a **numb** mind
My left arm became **numb**.

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.

urbanize

v. to make an area more urban in character or nature, often through the development and expansion of cities or towns
synonym: develop, modernize, city-build
(1) **urbanize** a region, (2) **urbanize** transportation systems
The government plans to **urbanize** the rural area by building more housing units and improving transportation infrastructure.

halfway

adj. in or at a point midway or an equal distance between two points
synonym: middle, median, center
(1) **halfway** through my journey, (2) **halfway** decent job
The famous restaurant stands **halfway** up the hill.

foresee

v. to perceive or predict; to anticipate or expect something to happen in the future
synonym: predict, anticipate, forecast
(1) **foresee** the consequences, (2) **foresee** challenges
I **foresee** a problem arising if we don't address this issue now.

affected

adj. influenced; feeling or showing emotion, especially exaggerated emotion; not natural or sincere
synonym: artificial, pretentious, stilted
(1) **affected** way of walking, (2) the **affected** part
Her **affected** accent made it difficult to take her seriously.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym : exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather

He narrated the **extraordinary** story of his adventure.

phenomenon

n. something that exists and can be perceptible, especially one that is not fully understood

synonym : marvel, wonder, splendor

(1) natural **phenomenon**, (2) historical **phenomenon**

A rainbow is a natural **phenomenon**.

negative

adj. having the quality of something bad or harmful; expressing refusal

synonym : minus, adverse, pessimistic

(1) have a **negative** effect, (2) a **negative** number

The movie has received almost universally **negative** criticism.

aspect

n. one part or feature of a situation, problem, subject, etc.

synonym : characteristic, element, factor

(1) nontechnical **aspects** of the job, (2) **aspects** of social, political, and economic life

His professional experience includes all **aspects** of media production.

vacuum

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

synonym : void, emptiness, gap

(1) **vacuum** cleaner, (2) **vacuum** packing

Please use the **vacuum** to clean up the mess on the floor.

magnet

n. an object or substance that can attract certain materials, such as iron or steel

synonym : magnetite, lodestone, attracting substance

(1) **magnet** attraction, (2) permanent **magnet**

The MRI machine uses **magnets** to produce images of the body's internal organs.

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**.

innovation

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

synonym: invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

wealth

n. a large amount of money, property, or other things that someone or an organization owns

synonym: affluence, assets, fortunate

(1) majority of his **wealth**, (2) material **wealth**

The **wealth** inequality was unavoidable.

dual

adj. having two parts, aspects, or elements

synonym: twofold, binary, double

(1) **dual** purpose, (2) **dual** nationality

This laptop has a **dual-core** processor, making it fast and efficient.

urgent

adj. requiring immediate attention or action; pressing

synonym: pressing, critical, immediate

(1) an **urgent** telegram, (2) **urgent** situation

It is **urgent** that we leave for the airport now to catch our flight.

comrade

n. a close associate, friend, or companion, especially one who shares one's interests, beliefs, or political convictions; a fellow member of an organization, especially a military or political group, who shares a common cause or objective

synonym: ally, friend, mate

(1) **comrade** in arms, (2) trusted **comrade**

We worked together as **comrades** to finish the project on time.

entropy

n. a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty

synonym: randomness

(1) **entropy** calculation, (2) **entropy** conservation

Since the second law of thermodynamics is applicable to the universe, the **entropy** of the universe continues to increase.

indicator

n. something that shows or points out what a situation is like or how a situation is changing

synonym: barometer, signal, index

(1) **indicator** lamp, (2) performance **indicators**

Several IT millionaires have shown that the level of education is a relatively poor **indicator** of whether a business can be successfully run.

provocative

adj. arousing anger, interest, or another strong reaction, especially deliberately

synonym: instigating, provoking, inciting

(1) **provocative** questions, (2) a **provocative** smile

His **provocative** style frequently sparked controversies.

desperately

adv. in a way that shows a lack of hope and a willingness to do anything because of the problematic situation; with great urgency

synonym: urgently, perilously, seriously

(1) **desperately** anxious, (2) **desperately** ill patient

The baby clung **desperately** to her mother.

quantifiable

adj. able to be measured, expressed, or quantified in numerical or statistical terms

synonym : measurable, calculable

(1) non- **quantifiable** risk, (2) **quantifiable** results

The impact of the new policy will be **quantifiable** through measurable data.

rely

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

synonym : depend, count, lean

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

underlying

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

synonym : fundamental, latent, basic

(1) an **underlying** motive, (2) an **underlying** cause of an accident

The **underlying** principle of every business was identical.

generic

adj. not specific; not linked to a particular brand or product

synonym : common, ordinary, typical

(1) a **generic** product, (2) **generic** version

The **generic** aspirin brand was just as effective as the name brand but much cheaper.

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.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym : forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

framework

n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

synonym : structure, scheme, foundation

(1) legal **framework**, (2) the **framework** of a house

He devised a new analytical **framework** to capture the phenomenon.

conceivable

adj. imaginable or possible to understand or believe in the mind

synonym : believable, imaginable, probable

(1) **conceivable** way, (2) **conceivable** emergency

It is challenging to defend every **conceivable** target.

universal

adj. existing or affecting everywhere or everyone

synonym : common, broad, worldwide

(1) **universal** life, (2) principles of **universal** design

The picture earned near- **universal** acclaim from critics.

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.

whale

n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

synonym : porpoise, giant

(1) a bull **whale**, (2) **whale** watching

Some countries have a culture of eating the flesh of a **whale**.

anthill

n. a mound or hill made by a colony of ants, often as a nest or shelter, which can vary in size and shape depending on the species of ant and the surrounding environment

synonym : ant nest, ant mound, formicary

(1) **anthill** colony, (2) **anthill** on the trail

The ants were busy building an **anthill** in the garden.

metaphor

n. a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity

synonym : conceit, analogy, symbol

(1) **metaphor** for death, (2) visual **metaphor**

She expressed her thought in an artful choice of **metaphors**.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

substance

n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

synonym : essence, core, material

(1) an explosive **substance**, (2) **substance** abuse problem

The **substance** of the argument was well-presented.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

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.

survive

v. to live or exist despite a dangerous event or period
synonym: endure, persist, stay

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

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

bust

v. to break something; (noun) a woman's chest, or the measurement around a woman's chest; (noun) an occasion for something excessive, such as work, eating, drinking, etc.

synonym: ruin, fall apart, (noun) breast

(1) **bust** my leg, (2) the **bust** of the statue

I'm **bust** with preparation for tomorrow's meeting.

branch

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

canopy

n. a covering, typically of fabric, supported on poles or suspended above a bed, throne, or other object, used to shelter or screen the person or object below it

synonym: cover, top, shade

(1) **canopy** layer, (2) under a **canopy** of smoke

The forest's **canopy** provides shade and protection for the plants and animals below.

mortality

n. the quality or state of being subject to death

synonym: fatality

(1) **mortality** due to cancer, (2) lower infant **mortality**

This disease has a high **mortality**.

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**.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym: acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

scalable

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

synonym: expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

mammal

n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body

(1) a primitive **mammal**, (2) a sort of **mammal**

Marine **mammal** populations are declining worldwide due to ocean pollution.

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.

organization

n. a group of people who work together for a shared purpose

synonym: association, institution, community

(1) **organization** chart, (2) agricultural **organization**

She is the president of a large international **organization**.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym : robust, sturdy, tough

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

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

robust

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

synonym : healthy, strong, booming

(1) **robust** growth, (2) a **robust** appetite

The experiment yielded **robust** results that support his theory.

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.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym : forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

paradigm

n. a standard or typical example of something; a pattern or model

synonym : example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**

He postulated a completely different **paradigm** to explain all these phenomena.

thrust

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

synonym: push, shove, prod

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

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

illustrate

v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation

synonym: demonstrate, explain, exemplify

(1) **illustrate** a key point, (2) **illustrate** a story

The company's financial records **illustrate** how successful it has been.

stick

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

synonym: pierce, adhere, stay

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

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

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym: program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

revenue

n. the income that a government receives from taxes or that a company earns from its business

synonym : earnings, payment, remuneration

(1) tax **revenue**, (2) annual **revenue**

This graph indicates the city's tourism **revenue** over five years.

zoom

v. to move along very quickly; (noun) the act of rising upward into the air

synonym : move quickly, dive, buzz

(1) **zoom** in on a photo, (2) **zoom** lens

He **zoomed** back in time to the soccer game.

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.

explicit

adj. stated clearly and in detail, leaving no room for confusion or doubt

synonym : clear, unambiguous, unequivocal

(1) **explicit** content, (2) **explicit** instructions

The movie had an **explicit** sex scene that some viewers might find offensive.

remarkable

adj. worthy of attention because unusual or special

synonym : outstanding, exceptional, extraordinary

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

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

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

synonym : chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

plot

n. a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

synonym: scheme, plan, design

(1) **plot** twist, (2) **plot** a revolution

The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

mass

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

synonym: abundance, crowd, mob

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

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

organism

n. a tiny living thing

synonym: being, creature

(1) aerobic **organism**, (2) group of **organisms**

A diversified plant species generally enhances beneficial **organism** populations.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

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.

diverse

adj. including numerous categories of individuals or entities;
various

synonym : manifold, various, myriad

(1) **diverse** backgrounds, (2) a person of **diverse** talents

New York is a city with a **diverse** ethnic population.

universe

n. everything that exists, especially all physical matter,
including planets, stars, galaxies, and all other forms of
matter and energy

synonym : cosmos, macrocosm

(1) theory of the **universe**, (2) expansion of the **universe**

The **universe** is about 13.8 billion years old.

simplicity

n. the quality or condition of being natural and plain or easy
to understand or do

synonym : easiness, plainness, modesty

(1) a life of **simplicity**, (2) refined **simplicity**

He liked the car because of the **simplicity** of the design.

astonishing

adj. surprising or shocking; difficult to believe

synonym : surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone
who knew her.

subsystem

n. a part or component of a larger system that performs a
specific function or functions interdependent with other
subsystems to accomplish the overall function of the
larger system

synonym : division, branch, element

(1) control **subsystem**, (2) heating **subsystem**

The computer's **subsystem** failed and caused the entire
system to shut down.

gene

n. the fundamental unit of heredity and the sequence of
nucleotides in DNA that codes for the creation of RNA or
protein.

synonym : factor, cistron

(1) **gene** expression, (2) **gene** cloning

A defective **gene** is responsible for the disease.

evolve

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

synonym : develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

unique

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

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

(1) a **unique** teacher, (2) **unique** design

The painting is **unique**, and there is no other like it.

niche

n. a specialized role or position that a species occupies within an ecosystem; a job or position particularly well suited to the person who occupies it

synonym : role, position, habitat

(1) **niche** market, (2) every **niche** of society

The species occupies a unique **niche** in the ecosystem as a top predator.

evolution

n. a gradual process of transformation of living things

synonym : elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

constrain

v. to restrict or limit someone or something's freedom or ability to do something

synonym : restrict, limit, confine

(1) **constrain** his freedom, (2) **constrain** information flow

The political situation **constrained** the country's economic growth and foreign relations.

slope

n. a surface with one end or side that is higher than the other

synonym : gradient, pitch, slant

(1) an abrupt **slope**, (2) slide down a **slope** on a ski

The hut stands on the **slope** of a mountain.

curve

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym : bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

straight

adj. extending or moving in one direction without bending or curving; having no deviations

synonym : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

quarter

n. one of four equal parts; a fourth part or portion

synonym : fourth, one-fourth

(1) a **quarter** mile, (2) end of the first **quarter**

The unemployment rate in the first **quarter** was 2.3 percentage points higher than in the previous.

roughly

adv. approximately but not precisely; with a violent manner

synonym : approximately, more or less, around

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

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

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.

steep

adj. having a sharp inclination or slope

synonym : sheer, precipitous, abrupt

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

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

translate

v. to convert or change words into another language

synonym : convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

well-defined

adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

synonym : clear, distinct, precise

(1) **well-defined** terms, (2) **well-defined** objectives

The **well-defined** set of instructions made it easy to assemble the furniture.

capita

n. a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone

synonym : head, headcount, person

(1) per **capita** sales, (2) the agricultural yield per **capita**
GDP per **capita** shrunk by almost 10 percent for the third consecutive year.

physiological

adj. relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body

synonym : biological, organic, bodily

(1) **physiological** response, (2) **physiological** activity

The doctor explained the various **physiological** changes that occur during pregnancy.

variable

adj. likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed

synonym : erratic, inconsistent, irregular

(1) a **variable** species, (2) a dependent **variable**

Rainfall in the tropics is highly **variable**.

regularity

n. the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency

synonym : consistency, uniformity, regularness

(1) the **regularity** of his breathing, (2) sleep **regularity**

The **regularity** of exercise is important for maintaining good health.

physiology

n. the branch of the biological sciences dealing with the functioning of organisms

(1) human **physiology**, (2) **physiology** research

Physiology is the science of how living things work.

intracellular

adj. existing or occurring within the cells of an organism or structure; situated or taking place within the boundaries of a cell

synonym : cellular, intracellularly

(1) **intracellular** compartment, (2) **intracellular** parasites

The **intracellular** signaling pathways play a crucial role in cellular communication.

multicellular

adj. characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)

synonym : multicelled, many-celled, complex

(1) **multicellular** tissues, (2) **multicellular** life

Multicellular organisms are composed of many specialized cells working together.

ecosystem

n. all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

summary

n. a brief statement that provides the critical aspects of something without going into depth

synonym: outline, digest, overview

(1) a **summary** execution, (2) a **summary** of the conclusions

A **summary** is at the end of the book.

constraint

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

synonym: limitation, restriction, bound

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

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

circulatory

adj. relating to the system that moves blood through the body, which includes the heart, arteries, and veins

synonym: circulative, rotating

(1) a **circulatory** disease, (2) cause **circulatory** failure shock

The **circulatory** system of the animal is also responsible for heat transportation.

introduction

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

synonym: initiation, preamble, prologue

(1) **introduction** education, (2) self- **introduction**

The **introduction** to the new class was informative and

engaging.

pace

n. the speed at which someone or something moves, or the rate at which something happens or changes

synonym: gait, rate, speed

(1) at your own **pace**, (2) the runner's **pace**

The economy is growing at a supercharged **pace**.

diffusion

n. a spreading motion in multiple directions

synonym: dispersal, scattering, disbandment

(1) the **diffusion** of knowledge, (2) **diffusion** of lightning

Due to the **diffusion** of television and video, cinema theaters had a small audience.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

membrane

n. a soft, thin layer that forms animal or vegetable tissue

synonym: tissue layer

(1) cell **membranes**, (2) nuclear **membrane**

Loud noises might harm the fragile ear **membrane**.

manifestation

n. a visible or tangible form of something, especially a particular sign of a disease or condition

synonym: expression, embodiment, presentation

(1) **manifestation** of a deeper problem, (2) **manifestation** of psychological stress

The **manifestation** of his anxiety was evident in his shaking hands.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym: dealings, exchange, relations

- (1) the **interaction** between man and his environment,
- (2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

- (1) live in a **cluster**,
- (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

individual

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

synonym: person, being, self

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

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

symbol

n. something visible that is used to represent something else

synonym: mark, character, insignia

- (1) **symbol** color,
- (2) **symbol** for happiness

The dragon is considered a **symbol** of bravery.

mundane

adj. very ordinary and therefore lacking interest or excitement

synonym: ordinary, everyday, prosaic

- (1) **mundane** affairs,
- (2) **mundane** objects

After returning from the war, he had a pretty **mundane** life.

petrol

n. a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America

synonym: gasoline, fuel, gas

- (1) **petrol** station,
- (2) **petrol** engine

I must fill my car with **petrol** before going on a long road trip.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a

specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

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.

infrastructure

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

synonym : foundation, framework

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

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

electrical

adj. relating to electricity

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

Actuators convert **electrical** pulses into motion.

integrate

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

synonym : mix, merge, combine

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

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

socioeconomic

adj. relating to the social and economic factors that shape an individual, group, or community, particularly in terms of income, occupation, education, and social class

synonym: social, economic, financial

(1) **socioeconomic** status, (2) **socioeconomic** issues

The **socioeconomic** conditions of a country can significantly affect its political stability.

quantity

n. the amount or number of something; magnitude

synonym: abundance, portion, amount

(1) half **quantity**, (2) residual **quantity**

In southward, the average annual water **quantity** increases.

analog

adj. relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.

(1) an **analog** watch, (2) digitization of **analog** sounds

Mercury thermometers are a type of **analog** sensor.

communal

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

synonym: collaborative, combined, collective

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

Communal elections were held in several European countries.

wage

n. a particular amount of money that somebody earns, usually every week or every month, for work or services

synonym: payment, compensation, salary

(1) unpaid **wages**, (2) increase in the minimum **wage**

His **wages** continued to rise as his skills improved.

exponent

n. a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself

synonym : advocate, representative, exponent

(1) **exponent** function, (2) the **exponent** of the free market
The CEO is an **exponent** of innovation and encourages employees to think outside the box.

patent

n. a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

synonym : copyright, trademark, license

(1) **patent** application, (2) **patent** law

The company has filed for a **patent** to protect its new invention.

influenza

n. (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics

synonym : grippe, flu

(1) an epidemic outbreak of **influenza**, (2) **influenza** B strain

The research institute allocated a lot of money to study the cause and prevention of **influenza**.

doubt

n. a feeling of being uncertain about something, especially about how good or accurate it is

synonym : distrust, suspect, mistrust

(1) dispel **doubts**, (2) no **doubt** about the news

Doubt is the start, not the end, of intelligence.

attract

v. to draw or entice someone or something towards them through the qualities they have, especially positive ones

synonym : lure, entice, draw in

(1) **attract** attention, (2) **attract** customers

The government is eager to **attract** international investment.

ugly

adj. unattractive in appearance; unpleasant to look at

synonym : unattractive, unsightly, repulsive

(1) an **ugly** sound, (2) **ugly** building

The **ugly** truth was that he had been lying to her for months.

independence

n. freedom from another's or others' control or influence

synonym: freedom, liberty, autonomy

(1) financial **independence**, (2) **independence** ceremony

There is nothing more valuable than **independence** and freedom.

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.

sigmoid

adj. relating to or shaped like the letter "S"

synonym: curved, bent, twisted

(1) **sigmoid** curve, (2) **sigmoid** artery

The doctor examined the **sigmoid** colon to check for any abnormalities.

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.

destine

v. to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a

particular fate or outcome

synonym : ordain, doom, predestine

(1) **destine** us to meet again, (2) be **destined** to become a great artist

Some people believe that we are all **destined** for greatness.

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym : tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

continuous

adj. occurring or existing without a pause or interruption

synonym : ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

cycle

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

synonym : revolution, rotation, bike

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

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

sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym : maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

innovate

v. to introduce new methods, ideas, or products

synonym : bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his

life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

treadmill

n. a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill

synonym : exercise machine, routine

(1) **treadmill** workout, (2) nonstop **treadmill**

I like to watch TV while running on the **treadmill** to pass the time.

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym : speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car

The government tried to **accelerate** the commercialization of this development.

basis

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym : foundation, base, ground

(1) on an equal **basis**, (2) **basis** for calculation

This evidence will form the **basis** for our discussion.

asset

n. something or someone that is useful or valuable quality, skill, etc.; valuable property

synonym : aid, resource, equity

(1) frozen **assets**, (2) liquid **assets** of the company

A sense of humor is an invaluable **asset** in this job.

denote

v. to indicate or represent something; to serve as a symbol or sign of something; to express or designate a meaning or concept

synonym : indicate, signify, represent

(1) **denote** meaning, (2) **denote** a negative affect

The symbol on the map **denotes** the location of the city.

employee

n. a person who is hired to work for a business or organization in exchange for wages or salary; a worker

synonym : worker, staff, personnel

(1) **employee** benefits, (2) **employee** evaluation

The **employee** handbook outlines the rules and regulations that all employees must follow.

fluctuation

n. a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

synonym : change, instability, flux

(1) price **fluctuations**, (2) **fluctuation** of water level

Temperature **fluctuations** are often milder in oceanfront areas.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym : hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

interpretation

n. an explanation or opinion of something, especially that is not immediately obvious

synonym : rendering, explanation, understanding

(1) the **interpretation** of history, (2) open to **interpretation**

His **interpretations** of literary works are often unique.

bureaucracy

n. a system of government in which most of the important decisions are made by state officials rather than by elected representatives

synonym : administration, government, system

(1) government **bureaucracy**, (2) arbitrary **bureaucracy**
The bumbling **bureaucracy** made it difficult to get the permits we needed.

administer

v. to oversee and control the operation or arrangement of something

synonym: allocate, distribute, dispense

(1) **administer** justice, (2) **administer** the funds

After the accident, three governmental bodies **administer** the company.

cheat

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

synonym: deceive, swindle, defraud

(1) **cheat** on my taxes, (2) **cheat** in a game

Even though he knew it was wrong, he **cheated** on the exam.

spectrum

n. an ordered array of colors into which a light beam can be split

synonym: range, scale, spread

(1) a broad **spectrum** of opinion, (2) infrared **spectrum**

This device displayed the speech **spectrum** spectrographically.

Session 2: Spelling

1. 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
2. a private ind_____al *n.* a single person or thing, as distinct from a group
3. annual re_____e *n.* the income that a government receives from taxes or that a company earns from its business
4. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
5. ex_____it content *adj.* stated clearly and in detail, leaving no room for confusion or doubt
6. lost civ_____ion *n.* a complex and highly organized society that has developed over time and has a dominant culture, including features such as language, religion, government, technology, and social customs
7. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
8. environmental po_____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
9. pr_____le in business *n.* a fundamental law or truth that explains or controls how something happens or works

ANSWERS: 1. linear, 2. individual, 3. revenue, 4. software, 5. explicit, 6. civilization, 7. remarkable, 8. pollution, 9. principle

10. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
11. 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
12. met_____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
13. ur_____ze transportation systems *v.* to make an area more urban in character or nature, often through the development and expansion of cities or towns
14. phy_____gy research *n.* the branch of the biological sciences dealing with the functioning of organisms
15. ex___d a lineup *v.* to increase or to make something greater in size, number, or importance
16. aerobic or_____sm *n.* a tiny living thing
17. su_____e a blizzard *v.* to live or exist despite a dangerous event or period
18. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
19. the reg_____ty of his breathing *n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency

ANSWERS: 10. atom, 11. degree, 12. metabolism, 13. urbanize, 14. physiology, 15. expand, 16. organism, 17. survive, 18. predict, 19. regularity

20. de____e us to meet again *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
21. cell me____nes *n.* a soft, thin layer that forms animal or vegetable tissue
22. phy____cal response *adj.* relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body
23. sl____ly alkaline soils *adv.* in a small degree or extent; a little
24. th____t a plate away *v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
25. a st__p staircase *adj.* having a sharp inclination or slope
26. the b__t of the statue *v.* to break something; (noun) a woman's chest, or the measurement around a woman's chest; (noun) an occasion for something excessive, such as work, eating, drinking, etc.
27. ast____ng achievement *adj.* surprising or shocking; difficult to believe
28. pe____l engine *n.* a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America
29. cutting-edge inn____on *n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 20. destine, 21. membrane, 22. physiological, 23. slightly, 24. thrust, 25. steep, 26. bust, 27. astonishing, 28. petrol, 29. innovation

30. cr____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
31. sy___l color *n.* something visible that is used to represent something else
32. co____nt a global warming *v.* to face, meet or deal with a problem or difficult situation or person
33. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
34. residual qu____ty *n.* the amount or number of something; magnitude
35. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
36. nonstop tr_____ll *n.* a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill
37. the hydrogen binds the ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
38. de___e meaning *v.* to indicate or represent something; to serve as a symbol or sign of something; to express or designate a meaning or concept

ANSWERS: 30. creative, 31. symbol, 32. confront, 33. accelerate, 34. quantity, 35. environment, 36. treadmill, 37. oxygen, 38. denote

39. phy_____cal activity *adj.* relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body
40. natural phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
41. st__p discount *adj.* having a sharp inclination or slope
42. an abrupt sl__e *n.* a surface with one end or side that is higher than the other
43. the fr_____rk of a house *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
44. refined sim_____ty *n.* the quality or condition of being natural and plain or easy to understand or do
45. a un___e teacher *adj.* being the only one of its kind; unlike anything else
46. on a qu__t for happiness *n.* a long or challenging search for something
47. ex_____it instructions *adj.* stated clearly and in detail, leaving no room for confusion or doubt
48. con_____nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
49. mul_____lar life *adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)

ANSWERS: 39. physiological, 40. phenomenon, 41. steep, 42. slope, 43. framework, 44. simplicity, 45. unique, 46. quest, 47. explicit, 48. constraint, 49. multicellular

50. non-urb_____ion area *n.* the process of population growth and physical expansion of cities, often involving increased migration from rural areas and the development of urban infrastructure and culture
51. a st_____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations
52. exp_____al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
53. ca____y layer *n.* a covering, typically of fabric, supported on poles or suspended above a bed, throne, or other object, used to shelter or screen the person or object below it
54. 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
55. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
56. in_____te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
57. do_____te over the weak *v.* to have or control a lot of power and influence over somebody or something
58. fo_____e challenges *v.* to perceive or predict; to anticipate or expect something to happen in the future

ANSWERS: 50. urbanization, 51. straight, 52. exponential, 53. canopy, 54. doll, 55. cluster, 56. integrate, 57. dominate, 58. foresee

59. photon ref_____on *n.* the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface
60. ts_____i warning *n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance
61. ev_____on theory *n.* a gradual process of transformation of living things
62. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
63. int_____lar compartment *adj.* existing or occurring within the cells of an organism or structure; situated or taking place within the boundaries of a cell
64. des_____ly anxious *adv.* in a way that shows a lack of hope and a willingness to do anything because of the problematic situation; with great urgency
65. manage my fi_____es *n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets
66. human ev_____on *n.* a gradual process of transformation of living things
67. under a ca_____y of smoke *n.* a covering, typically of fabric, supported on poles or suspended above a bed, throne, or other object, used to shelter or screen the person or object below it

ANSWERS: 59. reflection, 60. tsunami, 61. evolution, 62. environment, 63. intracellular, 64. desperately, 65. finance, 66. evolution, 67. canopy

68. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
69. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
70. qua_____ble results *adj.* able to be measured, expressed, or quantified in numerical or statistical terms
71. electric cr_____le furnace *n.* a vessel made of ceramic, metal, or other materials used for melting or fusing substances at high temperatures; a difficult or trying experience that tests one's character or resilience
72. wel_____ned objectives *adj.* having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable
73. ind_____nce ceremony *n.* freedom from another's or others' control or influence
74. fi_____e act *n.* the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

ANSWERS: 68. stick, 69. stick, 70. quantifiable, 71. crucible, 72. well-defined, 73. independence, 74. finance

75. mu_____e affairs *adj.* very ordinary and therefore lacking interest or excitement
76. financial ind_____nce *n.* freedom from another's or others' control or influence
77. trusted co_____e *n.* a close associate, friend, or companion, especially one who shares one's interests, beliefs, or political convictions; a fellow member of an organization, especially a military or political group, who shares a common cause or objective
78. me_____or for death *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
79. lower infant mo_____ty *n.* the quality or state of being subject to death
80. end of the first qu_____r *n.* one of four equal parts; a fourth part or portion
81. on an equal ba__s *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
82. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
83. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 75. mundane, 76. independence, 77. comrade, 78. metaphor, 79. mortality, 80. quarter, 81. basis, 82. curve, 83. mathematics

84. r__y entirely on him *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
85. human phy_____gy *n.* the branch of the biological sciences dealing with the functioning of organisms
86. g__e expression *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
87. 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
88. a person of di_____e talents *adj.* including numerous categories of individuals or entities; various
89. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
90. in_____te the quality of his life *v.* to introduce new methods, ideas, or products
91. 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

ANSWERS: 84. rely, 85. physiology, 86. gene, 87. develop, 88. diverse, 89. graph, 90. innovate, 91. dynamics

92. sy___l for happiness *n.* something visible that is used to represent something else
93. arbitrary bur_____cy *n.* a system of government in which most of the important decisions are made by state officials rather than by elected representatives
94. strict time con_____nts *n.* a limit or restriction on something, such as an action, behavior, or thought
95. an_____l on the trail *n.* a mound or hill made by a colony of ants, often as a nest or shelter, which can vary in size and shape depending on the species of ant and the surrounding environment
96. z__m lens *v.* to move along very quickly; (noun) the act of rising upward into the air
97. go to the workplace by cy__e *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
98. 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
99. frozen as__ts *n.* something or someone that is useful or valuable quality, skill, etc.; valuable property
100. adm_____er justice *v.* to oversee and control the operation or arrangement of something
101. si_____d artery *adj.* relating to or shaped like the letter "S"
102. ni__e market *n.* a specialized role or position that a species occupies within an ecosystem; a job or position particularly well suited to the person who occupies it

ANSWERS: 92. symbol, 93. bureaucracy, 94. constraint, 95. anthill, 96. zoom, 97. cycle, 98. structure, 99. asset, 100. administer, 101. sigmoid, 102. niche

103. tr_____ll workout *n.* a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill
104. group of or_____sms *n.* a tiny living thing
105. ec_____y class *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
106. inf_____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
107. the qu__t for truth *n.* a long or challenging search for something
108. exp_____al function *adj.* becoming more and more rapid; of or involving mathematical exponents
109. a broad sp_____um of opinion *n.* an ordered array of colors into which a light beam can be split
110. 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
111. un_____al life *adj.* existing or affecting everywhere or everyone

ANSWERS: 103. treadmill, 104. organism, 105. economy, 106. infrastructure, 107. quest, 108. exponential, 109. spectrum, 110. linear, 111. universal

112. the runner's p__e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
113. the af____ed part *adj.* influenced; feeling or showing emotion, especially exaggerated emotion; not natural or sincere
114. save the pl____t *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
115. co____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
116. expansion of the un____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
117. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
118. a m__s of molten rock *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
119. en____y calculation *n.* a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
120. tr____te a document into English *v.* to convert or change words into another language

ANSWERS: 112. pace, 113. affected, 114. planet, 115. communal, 116. universe, 117. graph, 118. mass, 119. entropy, 120. translate

121. an____l colony *n.* a mound or hill made by a colony of ants, often as a nest or shelter, which can vary in size and shape depending on the species of ant and the surrounding environment
122. fo____e the consequences *v.* to perceive or predict; to anticipate or expect something to happen in the future
123. em____ee benefits *n.* a person who is hired to work for a business or organization in exchange for wages or salary; a worker
124. co____al swimming pool *adj.* belonging to or used by a group rather than individuals; for common use
125. the stock market co____sed *v.* to fall down or give way suddenly, often after breaking apart
126. an an____g watch *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
127. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
128. in____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
129. live in a cl____r *n.* a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 121. anthill, 122. foresee, 123. employee, 124. communal, 125. collapse, 126. analog, 127. curve, 128. indicate, 129. cluster

130. man_____ion of a deeper problem
n. a visible or tangible form of something, especially a particular sign of a disease or condition
131. a su_____y execution
n. a brief statement that provides the critical aspects of something without going into depth
132. re_____ze talent
v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
133. marine ec_____em
n. all the plants and living creatures in an area and the way they affect each other and the environment
134. an ur____t telegram
adj. requiring immediate attention or action; pressing
135. cultural pa_____gm
n. a standard or typical example of something; a pattern or model
136. un____e design
adj. being the only one of its kind; unlike anything else
137. gloomy pre_____ons
n. the act of predicting the future by reasoning; a statement made about the future
138. in_____te a new method
v. to introduce new methods, ideas, or products
139. ready to co_____se
v. to fall down or give way suddenly, often after breaking apart
140. soc_____mic issues
adj. relating to the social and economic factors that shape an individual, group, or community, particularly in terms of income, occupation, education, and social class

ANSWERS: 130. manifestation, 131. summary, 132. recognize, 133. ecosystem, 134. urgent, 135. paradigm, 136. unique, 137. prediction, 138. innovate, 139. collapse, 140. socioeconomic

141. infrared sp_____um *n.* an ordered array of colors into which a light beam can be split
142. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
143. every ni__e of society *n.* a specialized role or position that a species occupies within an ecosystem; a job or position particularly well suited to the person who occupies it
144. a ro___t appetite *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
145. co_____nt the issue *v.* to face, meet or deal with a problem or difficult situation or person
146. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
147. liquid as__ts of the company *n.* something or someone that is useful or valuable quality, skill, etc.; valuable property
148. g__e cloning *n.* the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.
149. an epidemic outbreak of in_____za *n.* (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics

ANSWERS: 141. spectrum, 142. infrastructure, 143. niche, 144. robust, 145. confront, 146. mathematics, 147. asset, 148. gene, 149. influenza

150. at_____t attention *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
151. su_____n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
152. a life of sim_____ty *n.* the quality or condition of being natural and plain or easy to understand or do
153. a ne_____ve number *adj.* having the quality of something bad or harmful; expressing refusal
154. adm_____er the funds *v.* to oversee and control the operation or arrangement of something
155. b__t my leg *v.* to break something; (noun) a woman's chest, or the measurement around a woman's chest; (noun) an occasion for something excessive, such as work, eating, drinking, etc.
156. ref_____on question *n.* the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface
157. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
158. a su_____y of the conclusions *n.* a brief statement that provides the critical aspects of something without going into depth
159. at_____t customers *v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones

ANSWERS: 150. attract, 151. sustain, 152. simplicity, 153. negative, 154. administer, 155. bust, 156. reflection, 157. innovation, 158. summary, 159. attract

160. 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
161. be de_____ed to become a great artist *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
162. dispel do__ts *n.* a feeling of being uncertain about something, especially about how good or accurate it is
163. int_____lar parasites *adj.* existing or occurring within the cells of an organism or structure; situated or taking place within the boundaries of a cell
164. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
165. heating su_____em *n.* a part or component of a larger system that performs a specific function or functions interdependent with other subsystems to accomplish the overall function of the larger system
166. digitization of an____g sounds *adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
167. wh__e watching *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities

ANSWERS: 160. discuss, 161. destine, 162. doubt, 163. intracellular, 164. interaction, 165. subsystem, 166. analog, 167. whale

168. do_____te possession *v.* to have or control a lot of power and influence over somebody or something
169. a br____h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
170. civ_____ion decline *n.* a complex and highly organized society that has developed over time and has a dominant culture, including features such as language, religion, government, technology, and social customs
171. su_____e a plane crash *v.* to live or exist despite a dangerous event or period
172. the agricultural yield per ca____a *n.* a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone
173. pr_____le of treatment *n.* a fundamental law or truth that explains or controls how something happens or works
174. historical phe_____on *n.* something that exists and can be perceptible, especially one that is not fully understood
175. st_____ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations
176. pro_____ve questions *adj.* arousing anger, interest, or another strong reaction, especially deliberately
177. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 168. dominate, 169. branch, 170. civilization, 171. survive, 172. capita,
173. principle, 174. phenomenon, 175. straight, 176. provocative, 177. function

178. di____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
179. a bu__h of trees *n.* a grouping of several similar things which are growing or fastened together
180. d__l nationality *adj.* having two parts, aspects, or elements
181. atomic b__bs *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something
182. con_____le emergency *adj.* imaginable or possible to understand or believe in the mind
183. pa___t law *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
184. visual me____or *n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
185. ma___t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
186. pl___t like the Earth *n.* any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
187. cause cir_____ry failure shock *adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins

ANSWERS: 178. disease, 179. bunch, 180. dual, 181. bomb, 182. conceivable, 183. patent, 184. metaphor, 185. magnet, 186. planet, 187. circulatory

188. nontechnical as___ts of the job *n.* one part or feature of a situation, problem, subject, etc.
189. mo_____ty due to cancer *n.* the quality or state of being subject to death
190. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
191. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
192. a va_____le species *adj.* likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed
193. 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
194. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
195. self-int_____ion *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
196. disarm the b__b *n.* a weapon that explodes and is used to kill or injure people or to cause damage to something

ANSWERS: 188. aspect, 189. mortality, 190. statistics, 191. recognize, 192. variable, 193. structure, 194. accelerate, 195. introduction, 196. bomb

197. ro____y speaking *adv.* approximately but not precisely; with a violent manner
198. fu____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
199. sc____le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
200. man_____ion of psychological stress *n.* a visible or tangible form of something, especially a particular sign of a disease or condition
201. rem____le achievement *adj.* worthy of attention because unusual or special
202. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
203. br____h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
204. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
205. co____in information flow *v.* to restrict or limit someone or something's freedom or ability to do something

ANSWERS: 197. roughly, 198. function, 199. scalable, 200. manifestation, 201. remarkable, 202. extraordinary, 203. branch, 204. sustainable, 205. constrain

206. in_____or lamp *n.* something that shows or points out what a situation is like or how a situation is changing
207. ch__t in a game *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
208. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
209. the int_____ion of history *n.* an explanation or opinion of something, especially that is not immediately obvious
210. ind_____al freedom *n.* a single person or thing, as distinct from a group
211. ge_____c version *adj.* not specific; not linked to a particular brand or product
212. dynamically sc_____le *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
213. di_____on of lightning *n.* a spreading motion in multiple directions
214. em_____ee evaluation *n.* a person who is hired to work for a business or organization in exchange for wages or salary; a worker
215. no do__t about the news *n.* a feeling of being uncertain about something, especially about how good or accurate it is
216. va___m cleaner *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

ANSWERS: 206. indicator, 207. cheat, 208. complexity, 209. interpretation, 210. individual, 211. generic, 212. scalable, 213. diffusion, 214. employee, 215. doubt, 216. vacuum

217. va___m packing *n.* a space empty of matter; a device or tool used for cleaning or removing debris by creating suction
218. lack of ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
219. ha____y decent job *adj.* in or at a point midway or an equal distance between two points
220. ha____y through my journey *adj.* in or at a point midway or an equal distance between two points
221. ch__t on my taxes *v.* to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws
222. a hard and re_____nt steel *adj.* able to withstand or recover quickly from difficult conditions
223. government bur_____cy *n.* a system of government in which most of the important decisions are made by state officials rather than by elected representatives
224. de___e a negative affect *v.* to indicate or represent something; to serve as a symbol or sign of something; to express or designate a meaning or concept
225. ill_____te a key point *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
226. con_____le way *adj.* imaginable or possible to understand or believe in the mind

ANSWERS: 217. vacuum, 218. oxygen, 219. halfway, 220. halfway, 221. cheat, 222. resilient, 223. bureaucracy, 224. denote, 225. illustrate, 226. conceivable

227. an und_____ng motive *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
228. or____n of information *n.* the first existence or beginning of something
229. r____y on convenience stores *v.* to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.
230. price flu_____ons *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
231. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
232. di_____e backgrounds *adj.* including numerous categories of individuals or entities; various
233. a cir_____ry disease *adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins
234. at your own p____e *n.* the speed at which someone or something moves, or the rate at which something happens or changes
235. increase in the minimum w____e *n.* a particular amount of money that somebody earns, usually every week or every month, for work or services
236. slide down a sl____e on a ski *n.* a surface with one end or side that is higher than the other
237. pa____t application *n.* a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted

ANSWERS: 227. underlying, 228. origin, 229. rely, 230. fluctuation, 231. biology, 232. diverse, 233. circulatory, 234. pace, 235. wage, 236. slope, 237. patent

238. pe___l station *n.* a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America
239. a sort of ma___l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
240. a bull wh___e *n.* a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
241. per ca___a sales *n.* a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone
242. a con_____us row of warehouses *adj.* occurring or existing without a pause or interruption
243. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
244. ro_____y explain my idea *adv.* approximately but not precisely; with a violent manner
245. high levels of air po_____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
246. ex_____nt function *n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself

ANSWERS: 238. petrol, 239. mammal, 240. whale, 241. capita, 242. continuous, 243. software, 244. roughly, 245. pollution, 246. exponent

247. ba__s for calculation *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
248. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
249. d__l purpose *adj.* having two parts, aspects, or elements
250. agricultural org_____ion *n.* a group of people who work together for a shared purpose
251. int_____ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
252. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
253. legal fr_____rk *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
254. make ast_____ng gains *adj.* surprising or shocking; difficult to believe
255. an und_____ng cause of an accident *adj.* significant as a cause or basis of something but not immediately apparent or stated clearly
256. su_____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid

ANSWERS: 247. basis, 248. interaction, 249. dual, 250. organization, 251. introduction, 252. evolve, 253. framework, 254. astonishing, 255. underlying, 256. sustain

257. ro___t growth *adj.* sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity
258. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
259. ec____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
260. an u__y sound *adj.* unattractive in appearance; unpleasant to look at
261. 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
262. control su_____em *n.* a part or component of a larger system that performs a specific function or functions interdependent with other subsystems to accomplish the overall function of the larger system
263. co____e in arms *n.* a close associate, friend, or companion, especially one who shares one's interests, beliefs, or political convictions; a fellow member of an organization, especially a military or political group, who shares a common cause or objective

ANSWERS: 257. robust, 258. bunch, 259. economy, 260. ugly, 261. discuss, 262. subsystem, 263. comrade

264. en____y conservation *n.* a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
265. a pro_____ve smile *adj.* arousing anger, interest, or another strong reaction, especially deliberately
266. principles of sus_____le development *adj.* able to continue or be continued for a long time
267. flu_____on of water level *n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes
268. the cy__e of the seasons *n.* an interval during which a recurring sequence of events occurs; a bicycle or motorcycle
269. fire cr_____le *n.* a vessel made of ceramic, metal, or other materials used for melting or fusing substances at high temperatures; a difficult or trying experience that tests one's character or resilience
270. tax re_____e *n.* the income that a government receives from taxes or that a company earns from its business
271. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
272. org_____ion chart *n.* a group of people who work together for a shared purpose
273. majority of his we____h *n.* a large amount of money, property, or other things that someone or an organization owns

ANSWERS: 264. entropy, 265. provocative, 266. sustainable, 267. fluctuation, 268. cycle, 269. crucible, 270. revenue, 271. evolve, 272. organization, 273. wealth

274. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
275. des_____ly ill patient *adv.* in a way that shows a lack of hope and a willingness to do anything because of the problematic situation; with great urgency
276. ex___d agricultural output *v.* to increase or to make something greater in size, number, or importance
277. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
278. su_____ce abuse problem *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
279. a dependent va_____le *adj.* likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed
280. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
281. ts_____i relief *n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance
282. principles of un_____al design *adj.* existing or affecting everywhere or everyone
283. nuclear me_____ne *n.* a soft, thin layer that forms animal or vegetable tissue

ANSWERS: 274. statistics, 275. desperately, 276. expand, 277. biology, 278. substance, 279. variable, 280. disease, 281. tsunami, 282. universal, 283. membrane

284. mu____e objects *adj.* very ordinary and therefore lacking interest or excitement
285. soc_____mic status *adj.* relating to the social and economic factors that shape an individual, group, or community, particularly in terms of income, occupation, education, and social class
286. n__b with cold *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
287. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
288. the di_____on of knowledge *n.* a spreading motion in multiple directions
289. major pa_____gm shift *n.* a standard or typical example of something; a pattern or model
290. ill_____te a story *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
291. urb_____ion process *n.* the process of population growth and physical expansion of cities, often involving increased migration from rural areas and the development of urban infrastructure and culture
292. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
293. have a ne_____ve effect *adj.* having the quality of something bad or harmful; expressing refusal

ANSWERS: 284. mundane, 285. socioeconomic, 286. numb, 287. prediction, 288. diffusion, 289. paradigm, 290. illustrate, 291. urbanization, 292. creative, 293. negative

294. mul_____lar tissues *adj.* characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)
295. ur_____ze a region *v.* to make an area more urban in character or nature, often through the development and expansion of cities or towns
296. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
297. af_____ed way of walking *adj.* influenced; feeling or showing emotion, especially exaggerated emotion; not natural or sincere
298. si_____d curve *adj.* relating to or shaped like the letter "S"
299. re_____nt population *adj.* able to withstand or recover quickly from difficult conditions
300. permanent ma_____t *n.* an object or substance that can attract certain materials, such as iron or steel
301. theory of the un_____se *n.* everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy
302. non-qua_____ble risk *adj.* able to be measured, expressed, or quantified in numerical or statistical terms
303. p__t a revolution *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
304. increase sl_____ly *adv.* in a small degree or extent; a little

ANSWERS: 294. multicellular, 295. urbanize, 296. complexity, 297. affected, 298. sigmoid, 299. resilient, 300. magnet, 301. universe, 302. quantifiable, 303. plot, 304. slightly

305. performance in_____ors *n.* something that shows or points out what a situation is like or how a situation is changing
306. con_____us improvement *adj.* occurring or existing without a pause or interruption
307. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
308. in_____za B strain *n.* (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics
309. the ex_____nt of the free market *n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself
310. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
311. p__t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
312. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
313. 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

ANSWERS: 305. indicator, 306. continuous, 307. ecosystem, 308. influenza, 309. exponent, 310. indicate, 311. plot, 312. extraordinary, 313. degree

314. th___t a dagger home *v.* to push or drive forcibly; to impose or insert; (noun) the force used in pushing
315. a ge_____c product *adj.* not specific; not linked to a particular brand or product
316. racial or___n *n.* the first existence or beginning of something
317. 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
318. as___ts of social, political, and economic life *n.* one part or feature of a situation, problem, subject, etc.
319. open to int_____ion *n.* an explanation or opinion of something, especially that is not immediately obvious
320. in_____te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
321. ur___t situation *adj.* requiring immediate attention or action; pressing
322. a primitive ma___l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
323. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining

ANSWERS: 314. thrust, 315. generic, 316. origin, 317. develop, 318. aspect, 319. interpretation, 320. integrate, 321. urgent, 322. mammal, 323. metabolism

324. degree in ele_____al engineering *adj.* relating to electricity
325. 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
326. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
327. wel_____ned terms *adj.* having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable
328. critical m__s *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
329. a n__b mind *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
330. an explosive su_____ce *n.* the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug
331. sleep reg_____ty *n.* the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency
332. half qu_____ty *n.* the amount or number of something; magnitude

ANSWERS: 324. electrical, 325. doll, 326. predict, 327. well-defined, 328. mass, 329. numb, 330. substance, 331. regularity, 332. quantity

333. z__m in on a photo *v.* to move along very quickly; (noun) the act of rising upward into the air
334. material we___h *n.* a large amount of money, property, or other things that someone or an organization owns
335. an ele_____al storm *adj.* relating to electricity
336. tr_____te the emotion to a movement *v.* to convert or change words into another language
337. unpaid w__es *n.* a particular amount of money that somebody earns, usually every week or every month, for work or services
338. u__y building *adj.* unattractive in appearance; unpleasant to look at
339. a qu_____r mile *n.* one of four equal parts; a fourth part or portion
340. 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
341. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
342. co_____in his freedom *v.* to restrict or limit someone or something's freedom or ability to do something

ANSWERS: 333. zoom, 334. wealth, 335. electrical, 336. translate, 337. wage, 338. ugly, 339. quarter, 340. dynamics, 341. atom, 342. constrain

ANSWERS:

Session 3: Fill in the Blanks

1. Babies heavily _____ on others for food.
 - v. to require a specific thing or the assistance and support of someone or something to continue, run properly, or succeed.

2. The symbol on the map _____ the location of the city.
 - v. to indicate or represent something; to serve as a symbol or sign of something; to express or designate a meaning or concept

3. The _____ of the two groups is good for brainstorming.
 - n. the act of connecting with someone, mainly when working, playing, or spending time with them

4. The perspective of his right brain _____ his consciousness.
 - v. to have or control a lot of power and influence over somebody or something

5. The _____ of the argument was well-presented.
 - n. the real physical material of which a thing or person consist; the most important or main part of some idea or experience; an illegal drug

6. This laptop has a _____ processor, making it fast and efficient.
 - adj. having two parts, aspects, or elements

7. The _____ set of instructions made it easy to assemble the furniture.
 - adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

8. The ants were busy building an _____ in the garden.
 - n. a mound or hill made by a colony of ants, often as a nest or shelter, which can vary in size and shape depending on the species of ant and the surrounding environment

ANSWERS: 1. rely, 2. denotes, 3. interaction, 4. dominates, 5. substance, 6. dual-core, 7. well-defined, 8. anthill

9. I'm _____ with preparation for tomorrow's meeting.
- v.* to break something; (noun) a woman's chest, or the measurement around a woman's chest; (noun) an occasion for something excessive, such as work, eating, drinking, etc.
10. 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
11. They study the _____ of the universe.
- n.* a gradual process of transformation of living things
12. The company specializes in both hardware and _____.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
13. Companies developing self-driving cars consistently _____ the emerging technologies.
- v.* to introduce new methods, ideas, or products
14. The _____ inequality was unavoidable.
- n.* a large amount of money, property, or other things that someone or an organization owns
15. A rainbow is a natural _____.
- n.* something that exists and can be perceptible, especially one that is not fully understood
16. He finally decided to _____ problems directly.
- v.* to face, meet or deal with a problem or difficult situation or person

ANSWERS: 9. bust, 10. biology, 11. evolution, 12. software, 13. innovate, 14. wealth, 15. phenomenon, 16. confront

17. My left arm became _____.

adj. unable to feel physical sensation and movement; not showing human feeling or sensitivity

18. His _____ style frequently sparked controversies.

adj. arousing anger, interest, or another strong reaction, especially deliberately

19. After the accident, three governmental bodies _____ the company.

v. to oversee and control the operation or arrangement of something

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

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

21. His _____ of literary works are often unique.

n. an explanation or opinion of something, especially that is not immediately obvious

22. The computer's _____ failed and caused the entire system to shut down.

n. a part or component of a larger system that performs a specific function or functions interdependent with other subsystems to accomplish the overall function of the larger system

23. One bad apple spoils the whole _____.

n. a grouping of several similar things which are growing or fastened together

24. The dragon is considered a _____ of bravery.

n. something visible that is used to represent something else

25. The _____ truth was that he had been lying to her for months.

adj. unattractive in appearance; unpleasant to look at

ANSWERS: 17. numb, 18. provocative, 19. administer, 20. constraint, 21. interpretations, 22. subsystem, 23. bunch, 24. symbol, 25. ugly

26. The passenger grabbed for the _____ mask.
- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
27. The _____ signaling pathways play a crucial role in cellular communication.
- adj.* existing or occurring within the cells of an organism or structure; situated or taking place within the boundaries of a cell
28. 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
29. _____ is the start, not the end, of intelligence.
- n.* a feeling of being uncertain about something, especially about how good or accurate it is
30. The government is eager to _____ international investment.
- v.* to draw or entice someone or something towards them through the qualities they have, especially positive ones
31. The forest's _____ provides shade and protection for the plants and animals below.
- n.* a covering, typically of fabric, supported on poles or suspended above a bed, throne, or other object, used to shelter or screen the person or object below it
32. Temperature _____ are often milder in oceanfront areas.
- n.* a change, or the process of changing, that frequently happens, especially from one extreme to another; the quality of being unsteady and subject to changes

ANSWERS: 26. oxygen, 27. intracellular, 28. bombs, 29. Doubt, 30. attract, 31. canopy, 32. fluctuations

33. He devised a new analytical _____ to capture the phenomenon.
n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
34. 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
35. It is challenging to defend every _____ target.
adj. imaginable or possible to understand or believe in the mind
36. 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
37. He narrated the _____ story of his adventure.
adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual
38. He found that it is difficult to _____ socially.
v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
39. The company has filed for a _____ to protect its new invention.
n. a legal document that grants an inventor exclusive rights to their invention for a certain period of time; the invention or process for which a patent has been granted
40. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group

ANSWERS: 33. framework, 34. environment, 35. conceivable, 36. linear, 37. extraordinary, 38. integrate, 39. patent, 40. individual,

41. The economy is growing at a supercharged _____.

n. the speed at which someone or something moves, or the rate at which something happens or changes

42. The _____ principle of every business was identical.

adj. significant as a cause or basis of something but not immediately apparent or stated clearly

43. The _____ cliff made it difficult to climb.

adj. having a sharp inclination or slope

44. After returning from the war, he had a pretty _____ life.

adj. very ordinary and therefore lacking interest or excitement

45. A _____ is at the end of the book.

n. a brief statement that provides the critical aspects of something without going into depth

46. The baby clung _____ to her mother.

adv. in a way that shows a lack of hope and a willingness to do anything because of the problematic situation; with great urgency

47. The news of her sudden death was _____ to everyone who knew her.

adj. surprising or shocking; difficult to believe

48. She struggled to _____ the children's reading habits.

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

ANSWERS: 41. pace, 42. underlying, 43. steep, 44. mundane, 45. summary, 46. desperately, 47. astonishing, 48. sustain

49. The CEO is an _____ of innovation and encourages employees to think outside the box.
- n.* a person who supports and promotes a particular theory, idea, or scheme; a numerical expression usually written as a superscript that indicates the number of times a given number or expression is to be multiplied by itself
50. I _____ a problem arising if we don't address this issue now.
- v.* to perceive or predict; to anticipate or expect something to happen in the future
51. The data _____ that the company's profits have steadily increased over the past quarter.
- v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
52. She expressed her thought in an artful choice of _____.
- n.* a figure of speech in which an expression is used to refer to something that it does not denote to suggest a similarity
53. This device displayed the speech _____ spectrographically.
- n.* an ordered array of colors into which a light beam can be split
54. They hope to _____ their business worldwide.
- v.* to increase or to make something greater in size, number, or importance
55. He moved his body _____ to the left.
- adv.* in a small degree or extent; a little
56. Some people believe that we are all _____ for greatness.
- v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome

ANSWERS: 49. exponent, 50. foresee, 51. indicates, 52. metaphors, 53. spectrum, 54. expand, 55. slightly, 56. destined

57. The outermost electron shell of an _____ determines its chemical characteristics.
n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
58. The roof finally _____ after three days and three nights of heavy snowfall.
v. to fall down or give way suddenly, often after breaking apart
59. The research institute allocated a lot of money to study the cause and prevention of _____.
n. (formal for flu) a highly contagious viral disease that causes fever, severe aching, and catarrh and often occurs in epidemics
60. The _____ aspirin brand was just as effective as the name brand but much cheaper.
adj. not specific; not linked to a particular brand or product
61. In southward, the average annual water _____ increases.
n. the amount or number of something; magnitude
62. A sense of humor is an invaluable _____ in this job.
n. something or someone that is useful or valuable quality, skill, etc.; valuable property
63. This evidence will form the _____ for our discussion.
n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
64. 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

ANSWERS: 57. atom, 58. collapsed, 59. influenza, 60. generic, 61. quantity, 62. asset, 63. basis, 64. structure

65. He has a flair for _____.

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

66. The heavy snow has been _____ since last morning.

- adj.* occurring or existing without a pause or interruption

67. Rapid _____ has led to many environmental and social issues in cities.

- n.* the process of population growth and physical expansion of cities, often involving increased migration from rural areas and the development of urban infrastructure and culture

68. The earthquake-_____ caused widespread destruction along the coast.

- n.* a huge ocean wave caused by an earthquake, volcano, or other disturbance

69. The rise and fall of _____ can be studied through history and archaeology.

- n.* a complex and highly organized society that has developed over time and has a dominant culture, including features such as language, religion, government, technology, and social customs

70. Loud noises might harm the fragile ear _____.

- n.* a soft, thin layer that forms animal or vegetable tissue

71. It is _____ that we leave for the airport now to catch our flight.

- adj.* requiring immediate attention or action; pressing

72. Aging societies tend to require huge costs for _____ maintenance.

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

ANSWERS: 65. mathematics, 66. continuous, 67. urbanization, 68. tsunami, 69. civilizations, 70. membrane, 71. urgent, 72. infrastructure

73. His _____ continued to rise as his skills improved.
- n.* a particular amount of money that somebody earns, usually every week or every month, for work or services
74. 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
75. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
76. GDP per _____ shrunk by almost 10 percent for the third consecutive year.
- n.* a Latin word meaning "head," used to express the amount for each person; any head or headlike expansion on a structure, as on a bone
77. The _____ handbook outlines the rules and regulations that all employees must follow.
- n.* a person who is hired to work for a business or organization in exchange for wages or salary; a worker
78. 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
79. The company's financial records _____ how successful it has been.
- v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation

ANSWERS: 73. wages, 74. complexity, 75. function, 76. capita, 77. employee, 78. creative, 79. illustrate

80. Her _____ accent made it difficult to take her seriously.

adj. influenced; feeling or showing emotion, especially exaggerated emotion; not natural or sincere

81. _____ elections were held in several European countries.

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

82. I must fill my car with _____ before going on a long road trip.

n. a flammable liquid made from petroleum that is used as a fuel in internal combustion engines, commonly known as gasoline in North America

83. The political situation _____ the country's economic growth and foreign relations.

v. to restrict or limit someone or something's freedom or ability to do something

84. Actuators convert _____ pulses into motion.

adj. relating to electricity

85. Please use the _____ to clean up the mess on the floor.

n. a space empty of matter; a device or tool used for cleaning or removing debris by creating suction

86. The _____ is about 13.8 billion years old.

n. everything that exists, especially all physical matter, including planets, stars, galaxies, and all other forms of matter and energy

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

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

ANSWERS: 80. affected, 81. Communal, 82. petrol, 83. constrained, 84. electrical, 85. vacuum, 86. universe, 87. economy

88. That adventurer traveled in _____ of buried treasure.

n. a long or challenging search for something

89. We worked together as _____ to finish the project on time.

n. a close associate, friend, or companion, especially one who shares one's interests, beliefs, or political convictions; a fellow member of an organization, especially a military or political group, who shares a common cause or objective

90. It's notoriously challenging to _____ birth rates.

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

91. The teacher asked the students to write a _____ on the book they had just read.

n. the act of thinking deeply about something, or the ability to think deeply; the image of something that is seen in a mirror or other reflective surface

92. The impact of the new policy will be _____ through measurable data.

adj. able to be measured, expressed, or quantified in numerical or statistical terms

93. The scientific experiment required the use of a high-temperature _____.

n. a vessel made of ceramic, metal, or other materials used for melting or fusing substances at high temperatures; a difficult or trying experience that tests one's character or resilience

94. This disease has a high _____.

n. the quality or state of being subject to death

95. Eyeless fish _____ in dark caves.

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

ANSWERS: 88. quest, 89. comrades, 90. predict, 91. reflection, 92. quantifiable, 93. crucible, 94. mortality, 95. evolved

96. The _____ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.
- n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
97. The _____ of people who do not own property is politically impotent.
- n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together
98. The government tried to _____ the commercialization of this development.
- v.* to make something faster or earlier; to cause to develop or progress more quickly
99. 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
100. Due to the _____ of television and video, cinema theaters had a small audience.
- n.* a spreading motion in multiple directions
101. These results muddied the _____.
- n.* the act of predicting the future by reasoning; a statement made about the future
102. Marine _____ populations are declining worldwide due to ocean pollution.
- n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
103. The _____ in the road was so sharp that I had to slow down to navigate it safely.
- n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

ANSWERS: 96. plot, 97. mass, 98. accelerate, 99. doll, 100. diffusion, 101. prediction, 102. mammal, 103. curve

104. The government should do more to support environmentally _____ agriculture.
adj. able to continue or be continued for a long time
105. Since the second law of thermodynamics is applicable to the universe, the _____ of the universe continues to increase.
n. a scientific concept that is most commonly associated with a state of disorder, randomness, or uncertainty
106. Rainfall in the tropics is highly _____.
adj. likely to change or vary often; (noun) a symbol, like x or y, that is used in mathematical or logical expressions to represent a value that may be changed
107. Some countries have a culture of eating the flesh of a _____.
n. a very large sea mammal that has a streamlined body and breathes through a blowhole on the head; a very large person; impressive in size or qualities
108. _____ is the science of how living things work.
n. the branch of the biological sciences dealing with the functioning of organisms
109. A diversified plant species generally enhances beneficial _____ populations.
n. a tiny living thing
110. The _____ of the tree had fallen and blocked the road.
n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
111. Our company decided to hire an advisor who specializes in _____.
n. the management of money, credit, banking, and investments, especially by a government or commercial organization; the branch of economics that studies the management of money and other assets

ANSWERS: 104. sustainable, 105. entropy, 106. variable, 107. whale, 108. Physiology, 109. organism, 110. branch, 111. finance

112. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation
113. She is the president of a large international _____.
- n.* a group of people who work together for a shared purpose
114. It's important to _____ your strengths and weaknesses.
- v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
115. There are various hypotheses concerning the _____ of life.
- n.* the first existence or beginning of something
116. This bar _____ shows sales over the past five years.
- n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
117. _____ the text from Italian into English.
- v.* to convert or change words into another language
118. The painting is _____ and there is no other like it.
- adj.* being the only one of its kind; unlike anything else
119. The government plans to _____ the rural area by building more housing units and improving transportation infrastructure.
- v.* to make an area more urban in character or nature, often through the development and expansion of cities or towns

ANSWERS: 112. innovation, 113. organization, 114. recognize, 115. origin, 116. graph, 117. Translate, 118. unique, 119. urbanize

120. He was sick for five _____ days.

adj. extending or moving in one direction without bending or curving; having no deviations

121. Better sleep leads to increased _____.

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

122. The experiment yielded _____ results that support his theory.

adj. sturdy and healthy in form, constitution, or construction; strong enough to withstand or overcome intellectual challenges or adversity

123. The _____ is endangering the local plants and animals.

n. the introduction of harmful substances or waste into the natural environment that causes adverse change

124. He postulated a completely different _____ to explain all these phenomena.

n. a standard or typical example of something; a pattern or model

125. The species occupies a unique _____ in the ecosystem as a top predator.

n. a specialized role or position that a species occupies within an ecosystem; a job or position particularly well suited to the person who occupies it

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

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

127. The _____ system of the animal is also responsible for heat transportation.

adj. relating to the system that moves blood through the body, which includes the heart, arteries, and veins

ANSWERS: 120. straight, 121. metabolism, 122. robust, 123. pollution, 124. paradigm, 125. niche, 126. stick, 127. circulatory

128. A _____ of grapes hung from the vine.

n. a group of similar things or people close together, often forming a distinct mass or unit

129. This graph indicates the city's tourism _____ over five years.

n. the income that a government receives from taxes or that a company earns from its business

130. The food chain causes a material _____.

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

131. He _____ back in time to the soccer game.

v. to move along very quickly; (noun) the act of rising upward into the air

132. _____ organisms are composed of many specialized cells working together.

adj. characterized by the presence of multiple or many cells, as opposed to unicellular (having only one cell)

133. There is nothing more valuable than _____ and freedom.

n. freedom from another's or others' control or influence

134. Human conservation efforts often fail unexpectedly because they disturb the balance of the _____.

n. all the plants and living creatures in an area and the way they affect each other and the environment

135. The engine _____ the rocket into space.

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

ANSWERS: 128. cluster, 129. revenue, 130. cycle, 131. zoomed, 132. Multicellular, 133. independence, 134. ecosystem, 135. thrust

136. The movie had an _____ sex scene that some viewers might find offensive.
adj. stated clearly and in detail, leaving no room for confusion or doubt
137. New York is a city with a _____ ethnic population.
adj. including numerous categories of individuals or entities; various
138. These birds can only _____ in temperate climates.
v. to live or exist despite a dangerous event or period
139. The picture earned near-_____ acclaim from critics.
adj. existing or affecting everywhere or everyone
140. Mercury is the closest _____ to the sun.
n. any of the nine large celestial bodies that circle in the solar system; any celestial body that revolves around a star
141. The famous restaurant stands _____ up the hill.
adj. in or at a point midway or an equal distance between two points
142. The _____ of his anxiety was evident in his shaking hands.
n. a visible or tangible form of something, especially a particular sign of a disease or condition
143. Efficiency isn't an essential _____ here; fairness is.
n. a fundamental law or truth that explains or controls how something happens or works
144. The hut stands on the _____ of a mountain.
n. a surface with one end or side that is higher than the other

ANSWERS: 136. explicit, 137. diverse, 138. survive, 139. universal, 140. planet, 141. halfway, 142. manifestation, 143. principle, 144. slope

145. His professional experience includes all _____ of media production.

n. one part or feature of a situation, problem, subject, etc.

146. 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

147. The unemployment rate in the first _____ was 2.3 percentage points higher than in the previous.

n. one of four equal parts; a fourth part or portion

148. A defective _____ is responsible for the disease.

n. the fundamental unit of heredity and the sequence of nucleotides in DNA that codes for the creation of RNA or protein.

149. The company's new software is highly _____ allowing it to handle increasing number of users.

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

150. The doctor explained the various _____ changes that occur during pregnancy.

adj. relating to the normal functioning of living organisms and their organs and systems; concerning the physical or biochemical processes and activities that occur within the body

151. The movie has received almost universally _____ criticism.

adj. having the quality of something bad or harmful; expressing refusal

152. The doctor diagnosed him with a rare _____ that had no known cure.

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 145. aspects, 146. degree, 147. quarter, 148. gene, 149. scalable, 150. physiological, 151. negative, 152. disease

153. The doctor examined the _____ colon to check for any abnormalities.

adj. relating to or shaped like the letter "S"

154. The election was a _____ success for the Whigs.

adj. worthy of attention because unusual or special

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

adj. able to withstand or recover quickly from difficult conditions

156. 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

157. I like to watch TV while running on the _____ to pass the time.

n. a piece of exercise equipment consisting of a moving belt on which the user walks, jogs, or runs in place; a monotonous, repetitive task or activity that feels like it is going nowhere, much like a person walking on a treadmill

158. Five miles is _____ similar to eight kilometers.

adv. approximately but not precisely; with a violent manner

159. The _____ of exercise is important for maintaining good health.

n. the quality or state of being done often; conformity to a set of rules, standards, or expectations; the state of occurring with a consistent or predictable pattern or frequency

160. Even though he knew it was wrong, he _____ on the exam.

v. to act dishonestly or unfairly to gain an advantage or to deceive someone; to break the rules or laws

ANSWERS: 153. sigmoid, 154. remarkable, 155. resilient, 156. develop, 157. treadmill, 158. roughly, 159. regularity, 160. cheated

161. 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
162. The bumbling _____ made it difficult to get the permits we needed.
- n.* a system of government in which most of the important decisions are made by state officials rather than by elected representatives
163. Mercury thermometers are a type of _____ sensor.
- adj.* relating to or using signals or information represented by a continuous physical quantity such as spatial position, voltage, etc.
164. 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
165. Since the 1990s, the Internet has continued to experience _____ growth.
- adj.* becoming more and more rapid; of or involving mathematical exponents
166. The _____ conditions of a country can significantly affect its political stability.
- adj.* relating to the social and economic factors that shape an individual, group, or community, particularly in terms of income, occupation, education, and social class
167. The _____ demonstrate that poverty and unemployment are genuine problems.
- n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

ANSWERS: 161. dynamics, 162. bureaucracy, 163. analog, 164. discuss, 165. exponential, 166. socioeconomic, 167. statistics

168. The MRI machine uses _____ to produce images of the body's internal organs.

n. an object or substance that can attract certain materials, such as iron or steel

169. The _____ to the new class was informative and engaging.

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

170. Several IT millionaires have shown that the level of education is a relatively poor _____ of whether a business can be successfully run.

n. something that shows or points out what a situation is like or how a situation is changing

171. He liked the car because of the _____ of the design.

n. the quality or condition of being natural and plain or easy to understand or do

ANSWERS: 168. magnets, 169. introduction, 170. indicator, 171. simplicity