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Olivia Breese: The molecular love story that could help power the world | TED Talk

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All Words

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Session 1: Word List

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.

biodiversity

n. the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment

(1) **biodiversity** conservation, (2) loss of **biodiversity**

The country was instrumental in promoting the **biodiversity** treaty.

abate

v. to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time

synonym: decrease, diminish, reduce

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

He tried to **abate** his anger by taking deep breaths and counting to ten.

release

v. to set free or allow to escape from confinement
synonym: free, let go, discharge

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

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

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

oxide

n. a chemical compound that contains at least one oxygen atom and one other element

(1) silver **oxide**, (2) combined **oxide**

The blood's red coloring comes from iron **oxide**.

atmosphere

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

synonym: air, ambiance, circumstances

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

atmosphere

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

estimate

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

synonym: calculate, gauge, evaluate

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

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

trillion

n. the number 1,000,000,000,000; a million million

(1) **trillion** cubic feet, (2) many **trillions** of dollars

One light year is nearly 6 **trillion** miles.

- 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.
- reimagine** *v.* to imagine or conceive of something in a new or different way
synonym : re-conceptualize, re-envision, re-create
(1) **reimagine** the future, (2) **reimagine** the possibilities
The company is trying to **reimagine** its business model to stay competitive.
- consume** *v.* to spend something, especially fuel, energy, or time, in a large amount
synonym : absorb, ingest, use up
(1) **consume** a large of alcohol, (2) **consume** electricity
A smaller car will **consume** less fuel.
- mismatch** *v.* to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
synonym : mismatch, discord, clash
(1) **mismatch** expectations, (2) **mismatch** socks
The colors of the shirt and pants totally **mismatch**, making the outfit look ridiculous.
- complicated** *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
synonym : complex, convoluted, intricate
(1) a **complicated** process, (2) become increasingly **complicated**
He did **complicated** pen-and-ink drawings in just a few days.
- cute** *adj.* attractive, especially in a childlike or youthful way
synonym : attractive, charming, adorable

(1) act **cute**, (2) super **cute** dress

The baby's chubby cheeks and big eyes made her look so **cute**.

ultimate

adj. furthest or highest in degree or order

synonym: highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym: determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

electron

n. a tiny particle with the negative electrical charge

synonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym: particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

empathy

n. the ability to share another person's feelings or experiences by imagining that person's situation

synonym: compassion, sympathy, tenderness

(1) full of **empathy**, (2) **empathy** for patients

Empathy is also necessary to understand history.

narrative

n. a story or a description of a series of events or process of telling a story

synonym: the tale, chronology, annals

(1) **narrative** poetry, (2) personal **narrative**

The **narrative** handles multiple plot lines and has unpredictable ends.

arc

n. the shape of a portion of a circle or other curved line

synonym: turn, bow, angle

(1) the **arc** current, (2) an **arc** of a circumference

A ball flew in a big **arc**.

personality

n. a person's distinct combination of character, behavioral, temperamental, emotional, and mental traits that define them as an individual and set them apart from others

synonym: character, disposition, temperament

(1) **personality** trait, (2) **personality** test

She had a vibrant **personality** that made everyone feel at ease.

modern

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

synonym: contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

discovery

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

synonym: finding, uncovering, detection

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

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

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.

coil v. to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern

synonym: twist, wind, loop

(1) **coil** wire, (2) **coil** an arm

She carefully **coiled** the rope so that it wouldn't tangle.

increasingly *adv.* more and more
synonym: more and more, progressively
(1) **increasingly** become common, (2) face **increasingly** complicated challenges

Our company found it **increasingly** difficult to keep up with the competition.

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

synonym: wire, amaze, astonish

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

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

existence n. the state or fact of someone or something existing
synonym: fact, being, reality

(1) the biggest tree in **existence**, (2) the struggle for **existence**

He was an atheist and therefore did not believe in the **existence** of heaven or hell.

supple *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

synonym: flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience mesmerized.

chain

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

synonym: series, string, link

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

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

refrigeration

n. the process of cooling or freezing something, especially food, to preserve it

synonym: cooling, freezing, preservation

(1) **refrigeration** car, (2) **refrigeration** technology

The supermarket had a large **refrigeration** section with all kinds of fresh produce.

constitute

v. to be the essential or fundamental elements or parts of something; to establish, appoint, or assign someone to a particular office or position; to make up or compose something

synonym: comprise, form, make up

(1) **constitute** a threat, (2) **constitute** a majority

The new regulations **constitute** a significant change in the industry standards.

emission

n. the act of production or sending out gas, heat, light, etc.

synonym: emanation, radiation, discharge

(1) global **emissions** of greenhouse gases, (2) the **emission** of light

There are five distinct **emissions** at five unique wavelengths.

burning

adj. intense or scorching heat

synonym: scorching, blazing, smoldering

(1) **burning** desire, (2) **burning** passion

The fire spread rapidly, engulfing everything in its path in a

burning inferno.

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym : relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

fuel

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

synonym : energy, power, gas

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

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

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym : give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym : side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

heroine

n. a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film

synonym : protagonist

(1) medieval **heroine**, (2) tragic **heroine**

The brave **heroine** rescued the prince from the dragon's lair.

- tide** *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
synonym: ripple, surge, swell
(1) **tide** cycle, (2) ride the **tide** of change
Red **tide** is often harmful to the local ecosystem.
- unlimited** *adj.* without any limits or restrictions
synonym: unrestricted, boundless, limitless
(1) **unlimited** liability, (2) **unlimited** resources
An **unlimited** data plan is a popular option for heavy internet users.
- renewable** *adj.* capable of being renewed, extended, or replaced
synonym: sustainable, replaceable
(1) **renewable** energy, (2) **renewable** subscriptions
The production of **renewable** fuels requires massive volumes of fresh water.
- approximately** *adv.* close to a specific number or time but not exactly that number or time
synonym: about, around, roughly
(1) **approximately** 3 feet long, (2) **approximately** same
This trail takes **approximately** 2.5 hours.
- climate** *n.* the weather in a particular location averaged over some long period
synonym: atmosphere, weather, environment
(1) a cold **climate**, (2) effects of **climate** change
Climate and weather have an impact on every part of our lifestyles.
- identify** *v.* to recognize someone or something and say or prove who or what they are
synonym: determine, specify, recognize
(1) **identify** handwriting, (2) **identify** gene sequences
I will introduce you to how to **identify** the leading causes of

the malfunction.

virtually

adv. almost completely

synonym : almost, basically, nearly

(1) **virtually** all countries, (2) **virtually** identical

Virtually all the parties signed the contract.

professional

adj. having or showing the skill appropriate to a particular job; competent or skillful

synonym : skilled, competent, accomplished

(1) **professional** athlete, (2) certified **professional** secretary

He has a **professional** demeanor and always presents himself in a polished manner.

volume

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

synonym : capacity, amount, intensity

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

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

coming-of-age

n. the process of reaching maturity and assuming adult responsibilities

(1) **coming-of-age** celebration, (2) **coming-of-age** novel

The book is a **coming-of-age** story about a young boy growing up in a small town.

opposition

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

synonym : resistance, hostility, antagonism

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

The **opposition** party strongly disagreed with the government's proposed legislation.

complementary

adj. serving to complete or enhance something in a way that is suitable or pleasing

synonym :

supplementary, additional, attendant

(1) **complementary** therapies, (2) self- **complementary** region

The two art pieces were hung on opposite walls and acted as **complementary** elements in the room's decor.

ascribe

v. to attribute something to a particular cause or source
synonym: attribute, credit, assign

(1) **ascribe** everything to nature, (2) **ascribe** my failure to bad luck

The project's success was **ascribed** to the team's hard work.

consistent

adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

synonym: coherent, constant, compatible

(1) do on a **consistent** basis, (2) get **consistent** results

You are not **consistent** in your behavior.

reliable

adj. worthy of being relied on; trustworthy

synonym: dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

efficiently

adv. in a way that produces maximum output with minimum effort or expense

synonym: expeditiously, skillfully, ably

(1) **efficiently** combined, (2) develop software more **efficiently**

We can resolve support requests quickly and **efficiently** by utilization of AI.

critic

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

synonym: pundit, analyst, attacker

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

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

industrial

adj. of or relating to or resulting from industry

synonym : manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

Industrial design has become more focused on human nature aspect than ever before.

process

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

synonym : procedure, method, system

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

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

intense

adj. (especially of a feeling) very strong; extremely sharp or severe

synonym : extreme, fierce, harsh

(1) **intense** heat, (2) develop **intense** itching

That statement by the prime minister drew **intense** international criticism.

essential

adj. indispensable; fundamental

synonym : critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

aviation

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

synonym : flying, flight, aeronautics

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

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

transport

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

synonym: shipment, transit, conveyance

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

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

sector

n. a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity

synonym: division, department, branch

(1) industrial **sector**, (2) private **sector**

The technology **sector** is constantly evolving and innovating.

equate

v. to consider or describe one thing as similar, equal, or analogous

synonym: associate, liken, relate

(1) **equate** mistakes with failure, (2) **equate** to legal responsibility

It isn't very reasonable to **equate** money with happiness.

viable

adj. capable of being done as intended; able to succeed

synonym: feasible, possible, attainable

(1) achieve a **viable** relationship, (2) develop a **viable** therapy

Male gorillas with good drumming skills are more **viable**.

alternative

n. one of two or more available possibilities or choice

synonym: choice, option

(1) an **alternative** plan, (2) there is no other **alternative**

Doctors are gradually coming around to the idea of using **alternative** medicines.

obtain

v. to get something, especially by making a great effort

synonym: accept, acquire, receive

(1) **obtain** a license, (2) **obtain** a bid
Where can I **obtain** the application form?

credible

adj. capable of being trusted or believed
synonym: reasonable, believable, plausible

(1) **credible** source, (2) a **credible** story
They didn't have any **credible** evidence of his innocence.

possibility

n. a chance that something may happen or be true
synonym: chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake
The **possibility** of getting the disease will drastically increase.

entirely

adv. completely
synonym: completely, fully, totally

(1) **entirely** satisfied with the meal, (2) he was **entirely** to blame
Later, his claim was found to be **entirely** false.

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
synonym: custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**
It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

spark

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

(1) **spark** his interest, (2) **spark** a chain reaction
The bankruptcy of the giant conglomerate **sparked** turmoil in the stock market.

involve

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

synonym: implicate, include, engage

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

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

prefer

v. to like, choose, or want one thing or person better than another

synonym: choose, like, favor

(1) **prefer** physics to chemistry, (2) **prefer** a window seat

The birds **prefer** open water areas with reeds around them.

electrolysis

n. a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution

(1) **electrolysis** apparatus, (2) copper **electrolysis** process

The **electrolysis** of water produces oxygen and hydrogen.

split

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

synonym: break, divide, break apart

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

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

constituent

n. one of the parts of the whole; a person represented by an elected official

synonym: member, element, part

(1) **constituent** assembly, (2) the solid **constituent** of blood cells

Each **constituent** member of the council has the right to vote on important decisions.

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.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

extreme

adj. very great in amount or degree

synonym: farthestmost, outermost, fierce

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

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

flexible

adj. able to change or be changed to suit new conditions or situations; able to bend easily

synonym: adaptable, elastic, pliable

(1) **flexible** schedules, (2) a **flexible** wire

You can be more **flexible** and creative in your approach.

intensive

adj. involving a lot of work or activity in a short time

synonym: thorough, comprehensive, in-depth

(1) **intensive** agriculture, (2) **intensive** care

The construction industry is labor **intensive**, although it has been somewhat automated by introducing large machinery.

steel

n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure

synonym: iron

(1) magnetic **steel**, (2) **steel** beam

This bridge is the third largest **steel** bridge in the world.

synthesize

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

synonym:

incorporate, amalgamate

(1) **synthesize** molecules, (2) **synthesize** information

The spider can **synthesize** multiple different silk proteins.

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.

methanol

n. a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen

synonym: wood alcohol, methyl alcohol

(1) **methanol** content, (2) **methanol** fuel cell

Accidental ingestion of **methanol** moonshine has resulted in death.

decarbonize

v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy

synonym: decoke, decarburise, decarburize

(1) **decarbonize** their manufacturing process,

(2) **decarbonize** its energy system

We have to seek methods to **decarbonize** its fossil fuel economy.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

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

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

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work

late into the night.

kerosene

n. a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters

synonym : fuel oil, lamp oil, coal oil

(1) **kerosene** stove, (2) burning **kerosene**

The lamp in the cabin burned **kerosene** for light.

jet

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

synonym : plane, aircraft, flier

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

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

nitrogen

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

Nitrogen gas is used to inflate car tires because it does not react with rubber.

ammonia

n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives

(1) **ammonia** water, (2) inhale **ammonia** fumes

The advent of **ammonia** fertilizers markedly increased agricultural productivity.

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym : advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression**

toward sustainability.

deploy

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

synonym: set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures
This country **deployed** its weapons in the east region.

absolutely

adv. without restriction or limitation; completely or utterly

synonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

achieve

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

synonym: accomplish, attain, reach

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

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

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.

pathway

n. a track that constitutes or serves as a path; an approach or a way of doing something

synonym: route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling **pathways**

When the first molecule in the **pathway** receives a signal, it activates other molecules.

writ *n.* a written legal order or command
synonym : legal document, order, legal process
(1) a **writ** of summons, (2) issue a **writ**
He was served with a **writ** of eviction, giving him the notice to vacate the property.

breakthrough *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
synonym : advance, progress, innovation
(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery
A technique called deep learning has led to **breakthroughs** in AI.

install *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
synonym : establish, inaugurate, lodge
(1) **install** a door, (2) **install** a chairperson
The new president was **installed** immediately after the national election.

offshore *adj.* situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land
synonym : seaward, alongshore
(1) an **offshore** oil field, (2) an **offshore** fund
The company undertakes **offshore** development for software companies in many countries.

turbine *n.* a machine that rotates to generate power from fluids such as water or gas
synonym : engine, generator, power plant
(1) **turbine** energy, (2) **turbine** aerofoil
The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

shore

n. the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid

synonym : coast, seaside, beach

(1) a sandy **shore**, (2) **shore** up demand

The waves are beating against the **shore**.

economical

adj. providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary

synonym : frugal, thrifty, parsimonious

(1) **economical** use of her time, (2) an **economical** meal

It is more **economical** to wash your plastic bottle and reuse it.

immature

adj. not fully developed or grown; not fully mature

synonym : young, inexperienced, undeveloped

(1) an **immature** youth, (2) developmentally **immature**

His **immature** behavior often gets him into trouble.

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.

viability

n. the ability of something to be successful or to continue to exist

synonym : feasibility, practicability, workability

(1) cellular **viability**, (2) **viability** of the business

The project's **viability** was uncertain, so we put it on hold.

committed

adj. willing to put in a lot of effort, time, and energy into something; firmly believing in something

synonym : devoted, faithful, attached

(1) in a **committed** relationship, (2) strong and **committed** sales staff

Our company is strongly **committed** to meeting customers' needs.

optimize

v. to make the best or most effective use of something

synonym: advance, amend, improve

(1) **optimize** a process, (2) **optimize** control for cooling

The essence of economics is to **optimize** the allocation of limited resources.

component

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

synonym: element, part, factor

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

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

invest

v. to put money, effort, time, etc. into something to make a profit or achieve a result

synonym: fund, sponsor, support

(1) **invest** in stocks, (2) **invest** capital

The government should view children as national assets and actively **invest** in them.

manufacture

v. to make goods in large numbers, usually in a factory using machines

synonym: create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

policymaker

n. a person in charge of or involved in developing action plans for a political party, business, etc.

synonym: lawmaker, legislator

(1) education **policymaker**, (2) regional **policymaker**

Policymakers struggle to develop various laws and regulations to address international trade conflicts.

efficiency

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

synonym: effectiveness, efficacy, productivity

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

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

pillar

n. a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something

synonym: column, post, support

(1) **pillar** of society, (2) **pillar** decoration

The **pillar** of smoke rising from the building signaled a massive fire.

operational

adj. relating to a particular process or series of actions for achieving a result

synonym: functional, active, working

(1) introduce **operational** software, (2) build **operational** excellence

The machine should be **operational** by Friday afternoon.

oceanic

adj. relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface

synonym: marine, pelagic, sea

(1) **oceanic** climate, (2) **oceanic** exploration

The **oceanic** waves crashed against the shore, creating a mesmerizing sight.

container

n. a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

synonym: receptacle, holder, vessel

(1) plastic **container**, (2) **container** ship

The restaurant uses large **containers** to store its food ingredients.

vessel

n. a ship or large boat

synonym: boat, ship, craft

(1) blood **vessels**, (2) naval **vessels**

The **vessel** arrived in port the following day.

gulf

n. a large ocean inlet or deep bay that is partially enclosed by land

synonym: chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

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.

operate

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

synonym: work, use, employ

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

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

fossilized

adj. transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

synonym: petrified, ossified, preserved

(1) obsolete **fossilized** ways, (2) a **fossilized** grove

The dinosaur bones were so old that they had been wholly **fossilized**, turning to stone over millions of years.

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.

transform

v. to change in outward structure or looks;
synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

dependent

adj. relying on someone or something else for support or aid
synonym: reliant, subject, subordinate

(1) dose- **dependent** induction, (2) a **dependent** person

The small island nation is heavily **dependent** on tourism as its main source of income.

adaptation

n. the action or process of changing to suit different conditions

synonym: adaption, adjustment, transformation

(1) **adaptation** ability, (2) language **adaptation**

The company's **adaptation** approach has been highly effective.

mitigate

v. to make less severe or less intense; to alleviate or lessen the adverse effects of something

synonym: alleviate, relieve, reduce

(1) **mitigate** risk, (2) **mitigate** a natural disaster

Efforts to **mitigate** the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

inevitably

adv. in a manner that cannot be avoided or prevented

synonym: unavoidably, necessarily, surely

(1) **inevitably** decline with age, (2) **inevitably** reach the

consumer

Because of his excellent performance, he will **inevitably** be promoted.

equitably

adv. in a just, fair, and impartial manner; without showing favoritism or bias towards any particular individual or group

synonym : fairly, justly, impartially

(1) **equitably** distributed, (2) **equitably** allocated

The company's HR department emphasized the importance of treating all employees **equitably**.

dismiss

v. to regard something or someone as not important and not worth considering; to terminate someone's employment

synonym : decline, disband, dissolve

(1) **dismiss** a person from the office, (2) **dismiss** a matter with a laugh

The committee has decided to **dismiss** the president from the post.

imperative

adj. very important or requiring attention or action

synonym : compulsory, binding, critical

(1) moral **imperative**, (2) **imperative** need

It is **imperative** for politicians to be effective communicators.

luxury

n. a state of great comfort or sophistication, mainly provided by expensive and beautiful things

synonym : extravagance, indulgence, opulence

(1) get into the **luxury** car market, (2) **luxury** hotel

His anti- **luxury** practices were quite strict.

necessity

n. the state or fact of being needed; anything indispensable

synonym : need, essentiality, prerequisite

(1) in great **necessity**, (2) the **necessity** of the concrete measure

He emphasized the **necessity** of immediate action.

ceremony

n. a formal event or ritual, often religious or solemn
synonym : ritual, rite, observance

(1) **ceremony** hall, (2) **ceremony** location

The wedding **ceremony** was a beautiful and emotional event.

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.

importance

n. the quality of being important and worthy of note
synonym : significance, primacy, matter

(1) a man of **importance**, (2) high **importance**

I stopped by the branch though I have no business of **importance**.

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.

societal

adj. relating to society or social relationships

synonym : social, communal, cultural

(1) **societal** norms, (2) **societal** expectations

The **societal** pressure to conform is strong in this community.

endeavor

v. to make an earnest attempt or effort; to strive or work hard towards a goal or objective

synonym : attempt, strive, undertake

(1) **endeavor** to succeed, (2) **endeavor** as much as possible

We will **endeavor** to find a solution to the problem as quickly as possible.

uphold

v. to support or defend something, such as a law, idea, decision, etc.

synonym : defend, maintain, sustain

(1) **uphold** the law, (2) **uphold** tradition

The judge may **uphold** the decision of the lower court.

newlywed

n. a person who has recently married and is still in the early stages of their marriage

synonym : honeymooner

(1) congratulate the **newlyweds**, (2) **newlywed** bliss

The **newlywed** couple went on a romantic honeymoon in a tropical paradise.

government

n. the group of people with authority to control a country or state

synonym : administration, regime, state

(1) **government** bureaucracy, (2) **government** funding

The federal **government** is planning to increase taxes for the next fiscal year.

voter

n. a person who votes or has a legal right to vote in a political election

synonym : elector, citizen

(1) an eligible **voter**, (2) **voter** apathy

The election administration nullified the election results because of **voter** fraud.

Session 2: Spelling

1. a fl_____le wire
adj. able to change or be changed to suit new conditions or situations; able to bend easily
2. get into the lu____y car market
n. a state of great comfort or sophistication, mainly provided by expensive and beautiful things
3. so_____al expectations
adj. relating to society or social relationships
4. magnetic st__l
n. a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
5. ref_____ion technology
n. the process of cooling or freezing something, especially food, to preserve it
6. the ul_____te goal in life
adj. furthest or highest in degree or order
7. el_____fy the audience
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
8. flow of el_____ons
n. a tiny particle with the negative electrical charge
9. a cold cl_____e
n. the weather in a particular location averaged over some long period
10. private j_t
n. a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances

ANSWERS: 1. flexible, 2. luxury, 3. societal, 4. steel, 5. refrigeration, 6. ultimate, 7. electrify, 8. electron, 9. climate, 10. jet

11. 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
12. regional pol_____er n. a person in charge of or involved in developing action plans for a political party, business, etc.
13. biomass f__l n. a substance that is typically burned to generate heat or energy
14. sh__e up demand n. the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid
15. abs_____ly against adv. without restriction or limitation; completely or utterly
16. meet with opp_____on n. the act of disagreeing or resisting; the state of strong disagreement
17. su___e muscles adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
18. con_____te a threat v. to be the essential or fundamental elements or parts of something; to establish, appoint, or assign someone to a particular office or position; to make up or compose something
19. beginning of the ind_____al revolution adj. of or relating to or resulting from industry

ANSWERS: 11. develop, 12. policymaker, 13. fuel, 14. shore, 15. absolutely, 16. opposition, 17. supple, 18. constitute, 19. industrial

20. full of em____y *n.* the ability to share another person's feelings or experiences by imagining that person's situation
21. ca____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
22. tr____on cubic feet *n.* the number 1,000,000,000,000; a million million
23. re_____ne the future *v.* to imagine or conceive of something in a new or different way
24. un_____ed liability *adj.* without any limits or restrictions
25. pr____r a window seat *v.* to like, choose, or want one thing or person better than another
26. mi____te risk *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
27. ref_____ion car *n.* the process of cooling or freezing something, especially food, to preserve it
28. moral imp_____ve *adj.* very important or requiring attention or action
29. 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
30. ind_____us student *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 20. empathy, 21. carbon, 22. trillion, 23. reimagine, 24. unlimited, 25. prefer, 26. mitigate, 27. refrigeration, 28. imperative, 29. recognize, 30. industrious

31. t__e cycle *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
32. a w__t of summons *n.* a written legal order or command
33. bu____g desire *adj.* intense or scorching heat
34. education pol_____er *n.* a person in charge of or involved in developing action plans for a political party, business, etc.
35. lu___y hotel *n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things
36. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
37. co_____al combination of funds *adj.* belonging to or used by a group rather than individuals; for common use
38. super c__e dress *adj.* attractive, especially in a childlike or youthful way
39. strong and co_____ed sales staff *adj.* willing to put in a lot of effort, time, and energy into something; firmly believing in something
40. an eligible vo__r *n.* a person who votes or has a legal right to vote in a political election
41. en_____or to succeed *v.* to make an earnest attempt or effort; to strive or work hard towards a goal or objective
42. app_____ely same *adv.* close to a specific number or time but not exactly that number or time
43. pi___r decoration *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something

ANSWERS: 31. tide, 32. writ, 33. burning, 34. policymaker, 35. luxury, 36. renewable, 37. communal, 38. cute, 39. committed, 40. voter, 41. endeavor, 42. approximately, 43. pillar

44. ele_____sis apparatus *n.* a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution
45. es_____al amino acid *adj.* indispensable; fundamental
46. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
47. re_____e a prisoner *v.* to set free or allow to escape from confinement
48. en_____ly satisfied with the meal *adv.* completely
49. c___l an arm *v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
50. 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
51. the struggle for ex_____ce *n.* the state or fact of someone or something existing
52. ob____n a license *v.* to get something, especially by making a great effort

ANSWERS: 44. electrolysis, 45. essential, 46. process, 47. release, 48. entirely, 49. coil, 50. oxygen, 51. existence, 52. obtain

53. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
54. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
55. a sandy sh__e *n.* the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid
56. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
57. ine_____ly reach the consumer *adv.* in a manner that cannot be avoided or prevented
58. fl_____le schedules *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
59. re____e CO2 into the air *v.* to set free or allow to escape from confinement
60. develop a vi___e therapy *adj.* capable of being done as intended; able to succeed
61. the ne_____ty of the concrete measure *n.* the state or fact of being needed; anything indispensable

ANSWERS: 53. molecule, 54. complicated, 55. shore, 56. process, 57. inevitably, 58. flexible, 59. release, 60. viable, 61. necessity

62. personal na_____ve *n.* a story or a description of a series of events or process of telling a story
63. a cr_____le story *adj.* capable of being trusted or believed
64. re_____ne the possibilities *v.* to imagine or conceive of something in a new or different way
65. mi_____ch socks *v.* to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
66. ce_____ny location *n.* a formal event or ritual, often religious or solemn
67. an alt_____ve plan *n.* one of two or more available possibilities or choice
68. up_____d tradition *v.* to support or defend something, such as a law, idea, decision, etc.
69. tu_____e energy *n.* a machine that rotates to generate power from fluids such as water or gas
70. syn_____ze molecules *v.* to combine a substance to make a more complex product or compound
71. pa_____y to understanding *n.* a track that constitutes or serves as a path; an approach or a way of doing something
72. beam of el_____ons *n.* a tiny particle with the negative electrical charge
73. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
74. in_____l a chairperson *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position

ANSWERS: 62. narrative, 63. credible, 64. reimagine, 65. mismatch, 66. ceremony, 67. alternative, 68. uphold, 69. turbine, 70. synthesize, 71. pathway, 72. electron, 73. gulf, 74. install

75. bre_____ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
76. ride the t__e of change *n.* the cyclical rise and fall of sea level caused by the moon's gravitational pull
77. supply ch__n *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
78. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
79. gov_____nt funding *n.* the group of people with authority to control a country or state
80. copper ele_____sis process *n.* a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution
81. develop in_____e itching *adj.* (especially of a feeling) very strong; extremely sharp or severe
82. con_____nt assembly *n.* one of the parts of the whole; a person represented by an elected official
83. pro_____nal athlete *adj.* having or showing the skill appropriate to a particular job; competent or skillful
84. bio_____ity conservation *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
85. better fuel eff_____cy *n.* the state or quality of doing something well with no waste of input such as time or money

ANSWERS: 75. breakthrough, 76. tide, 77. chain, 78. gulf, 79. government, 80. electrolysis, 81. intense, 82. constituent, 83. professional, 84. biodiversity, 85. efficiency

86. cellular signaling pa_____ys *n.* a track that constitutes or serves as a path; an approach or a way of doing something
87. 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.
88. mo____n poetry *adj.* of or belonging to the present time or recent times
89. 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
90. carbon dioxide in the atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
91. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
92. ma____t attraction *n.* an object or substance that can attract certain materials, such as iron or steel
93. in_____e heat *adj.* (especially of a feeling) very strong; extremely sharp or severe
94. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 86. pathway, 87. gene, 88. modern, 89. doll, 90. atmosphere, 91. involve, 92. magnet, 93. intense, 94. resolution

95. 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
96. op____ze control for cooling *v.* to make the best or most effective use of something
97. eco_____al use of her time *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
98. de___y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
99. an im_____re youth *adj.* not fully developed or grown; not fully mature
100. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
101. 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
102. sp__k his interest *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
103. oc_____c exploration *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface

ANSWERS: 95. doll, 96. optimize, 97. economical, 98. deploy, 99. immature, 100. achieve, 101. develop, 102. spark, 103. oceanic

104. ab__e a crisis *v.* to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time
105. ind_____al alcohol *adj.* of or relating to or resulting from industry
106. me_____ol content *n.* a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen
107. cellular vi_____ty *n.* the ability of something to be successful or to continue to exist
108. ac_____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
109. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
110. a private ind_____al *n.* a single person or thing, as distinct from a group
111. ada_____on ability *n.* the action or process of changing to suit different conditions
112. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
113. gov_____nt bureaucracy *n.* the group of people with authority to control a country or state
114. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
115. burning of fo___l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

ANSWERS: 104. abate, 105. industrial, 106. methanol, 107. viability, 108. achieve, 109. critic, 110. individual, 111. adaptation, 112. supple, 113. government, 114. byproduct, 115. fossil

116. high imp_____ce *n.* the quality of being important and worthy of note
117. develop software more eff_____ly *adv.* in a way that produces maximum output with minimum effort or expense
118. man_____re a product *v.* to make goods in large numbers, usually in a factory using machines
119. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
120. self-com_____ary region *adj.* serving to complete or enhance something in a way that is suitable or pleasing
121. tu_____e aerofoil *n.* a machine that rotates to generate power from fluids such as water or gas
122. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
123. the solid con_____nt of blood cells *n.* one of the parts of the whole; a person represented by an elected official
124. a tr_____on of a culture *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
125. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
126. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
127. in a co_____ed relationship *adj.* willing to put in a lot of effort, time, and energy into something; firmly believing in something

ANSWERS: 116. importance, 117. efficiently, 118. manufacture, 119. discovery, 120. complementary, 121. turbine, 122. industrious, 123. constituent, 124. tradition, 125. progression, 126. opposition, 127. committed

128. ind_____al freedom *n.* a single person or thing, as distinct from a group
129. ce_____ny hall *n.* a formal event or ritual, often religious or solemn
130. build ope_____al excellence *adj.* relating to a particular process or series of actions for achieving a result
131. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
132. the ul_____te luxury *adj.* furthest or highest in degree or order
133. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
134. in great ne_____ty *n.* the state or fact of being needed; anything indispensable
135. manually op_____e a machine *v.* to work in a particular way; to supervise something
136. private se_____r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
137. pos_____ty for growth *n.* a chance that something may happen or be true
138. am_____a water *n.* a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
139. eq___e to legal responsibility *v.* to consider or describe one thing as similar, equal, or analogous
140. silver ox___e *n.* a chemical compound that contains at least one oxygen atom and one other element

ANSWERS: 128. individual, 129. ceremony, 130. operational, 131. emit, 132. ultimate, 133. climate, 134. necessity, 135. operate, 136. sector, 137. possibility, 138. ammonia, 139. equate, 140. oxide

141. key co_____nt *n.* one of several parts that combines with others to form something bigger
142. sp__t a bill *v.* to divide, or to make something divide into two or more parts, especially along a particular line
143. act c__e *adj.* attractive, especially in a childlike or youthful way
144. ine_____ly decline with age *adv.* in a manner that cannot be avoided or prevented
145. dispel do__ts *n.* a feeling of being uncertain about something, especially about how good or accurate it is
146. en_____or as much as possible *v.* to make an earnest attempt or effort; to strive or work hard towards a goal or objective
147. em_____y for patients *n.* the ability to share another person's feelings or experiences by imagining that person's situation
148. a convivial atm_____re *n.* the mass of air that surrounds the Earth; the pervading tone or mood of a place, situation, or creative work
149. 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
150. eq_____ly allocated *adv.* in a just, fair, and impartial manner; without showing favoritism or bias towards any particular individual or group

ANSWERS: 141. component, 142. split, 143. cute, 144. inevitably, 145. doubt, 146. endeavor, 147. empathy, 148. atmosphere, 149. economy, 150. equitably

151. hy____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
152. combined ox__e *n.* a chemical compound that contains at least one oxygen atom and one other element
153. ob___n a bid *v.* to get something, especially by making a great effort
154. inc_____gly become common *adv.* more and more
155. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
156. eq___e mistakes with failure *v.* to consider or describe one thing as similar, equal, or analogous
157. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
158. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
159. in___t capital *v.* to put money, effort, time, etc. into something to make a profit or achieve a result
160. 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
161. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on

ANSWERS: 151. hydrogen, 152. oxide, 153. obtain, 154. increasingly, 155. manufacture, 156. equate, 157. identify, 158. discovery, 159. invest, 160. degree, 161. transport

162. 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
163. com_____age novel *n.* the process of reaching maturity and assuming adult responsibilities
164. certified pro_____nal secretary *adj.* having or showing the skill appropriate to a particular job; competent or skillful
165. vi_____ly identical *adv.* almost completely
166. the biggest tree in ex_____ce *n.* the state or fact of someone or something existing
167. dose-de_____nt induction *adj.* relying on someone or something else for support or aid
168. language ada_____on *n.* the action or process of changing to suit different conditions
169. eq_____ly distributed *adv.* in a just, fair, and impartial manner; without showing favoritism or bias towards any particular individual or group
170. tragic he_____e *n.* a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film
171. mi_____ch expectations *v.* to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
172. abs_____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly

ANSWERS: 162. recognize, 163. coming-of-age, 164. professional, 165. virtually, 166. existence, 167. dependent, 168. adaptation, 169. equitably, 170. heroine, 171. mismatch, 172. absolutely

173. inhale am____a fumes *n.* a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
174. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
175. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
176. global av____on industry *n.* the activity or process of designing, building, flying, and maintaining aircraft
177. es____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
178. bu____g passion *adj.* intense or scorching heat
179. ne____ed bliss *n.* a person who has recently married and is still in the early stages of their marriage
180. naval ve____ls *n.* a ship or large boat
181. com____age celebration *n.* the process of reaching maturity and assuming adult responsibilities
182. c__l wire *v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
183. commercial j_t *n.* a type of aircraft that is powered by one or more jet engines and can fly at high speeds, typically over long distances
184. tr____rm heat into power *v.* to change in outward structure or looks;

ANSWERS: 173. ammonia, 174. fuel, 175. emit, 176. aviation, 177. estimate, 178. burning, 179. newlywed, 180. vessel, 181. coming-of-age, 182. coil, 183. jet, 184. transform

185. industrial se___r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
186. st__l beam *n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
187. de___y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
188. in_____ve agriculture *adj.* involving a lot of work or activity in a short time
189. imp_____ve need *adj.* very important or requiring attention or action
190. loss of bio_____ity *n.* the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
191. sp__t a reward equally *v.* to divide, or to make something divide into two or more parts, especially along a particular line
192. as_____e my failure to bad luck *v.* to attribute something to a particular cause or source
193. heavy ni_____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

ANSWERS: 185. sector, 186. steel, 187. deploy, 188. intensive, 189. imperative, 190. biodiversity, 191. split, 192. ascribe, 193. nitrogen

194. ex____e weather events *adj.* very great in amount or degree
195. an a_c of a circumference *n.* the shape of a portion of a circle or other curved line
196. mi____te a natural disaster *v.* to make less severe or less intense; to alleviate or lessen the adverse effects of something
197. an of____re oil field *adj.* situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land
198. access to public tr____rt *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
199. 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.
200. ni____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
201. a man of imp____ce *n.* the quality of being important and worthy of note
202. mo____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
203. a ch____al compound *adj.* relating to or connected with chemistry;
204. as____e everything to nature *v.* to attribute something to a particular cause or source

ANSWERS: 194. extreme, 195. arc, 196. mitigate, 197. offshore, 198. transport, 199. gene, 200. nitrogen, 201. importance, 202. molecule, 203. chemical, 204. ascribe

205. con_____te a majority
v. to be the essential or fundamental elements or parts of something; to establish, appoint, or assign someone to a particular office or position; to make up or compose something
206. co_____al swimming pool
adj. belonging to or used by a group rather than individuals; for common use
207. vi_____ly all countries
adv. almost completely
208. a fo___l leaf
n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
209. ca___n emission
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
210. an of_____re fund
adj. situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land
211. in___t in stocks
v. to put money, effort, time, etc. into something to make a profit or achieve a result
212. permanent ma___t
n. an object or substance that can attract certain materials, such as iron or steel
213. a com_____ed process
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
214. get con_____nt results
adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

ANSWERS: 205. constitute, 206. communal, 207. virtually, 208. fossil, 209. carbon, 210. offshore, 211. invest, 212. magnet, 213. complicated, 214. consistent

215. es____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
216. medieval he____e *n.* a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film
217. com_____ary therapies *adj.* serving to complete or enhance something in a way that is suitable or pleasing
218. there is no other alt_____ve *n.* one of two or more available possibilities or choice
219. me____ol fuel cell *n.* a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen
220. vi_____ty of the business *n.* the ability of something to be successful or to continue to exist
221. the a_c current *n.* the shape of a portion of a circle or other curved line
222. oc____c climate *adj.* relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface
223. plastic co_____er *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
224. heavy hy____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

ANSWERS: 215. estimate, 216. heroine, 217. complementary, 218. alternative, 219. methanol, 220. viability, 221. arc, 222. oceanic, 223. container, 224. hydrogen

225. syn_____ze information *v.* to combine a substance to make a more complex product or compound
226. introduce ope_____al software *adj.* relating to a particular process or series of actions for achieving a result
227. so_____al norms *adj.* relating to society or social relationships
228. ke_____ne stove *n.* a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
229. re_____le energy *adj.* capable of being renewed, extended, or replaced
230. di_____s a matter with a laugh *v.* to regard something or someone as not important and not worth considering; to terminate someone's employment
231. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
232. up_____d the law *v.* to support or defend something, such as a law, idea, decision, etc.
233. ex_____e sports *adj.* very great in amount or degree
234. eff_____ly combined *adv.* in a way that produces maximum output with minimum effort or expense
235. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
236. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward

ANSWERS: 225. synthesize, 226. operational, 227. societal, 228. kerosene, 229. renewable, 230. dismiss, 231. byproduct, 232. uphold, 233. extreme, 234. efficiently, 235. tradition, 236. progression

237. un_____ed resources *adj.* without any limits or restrictions
238. pr___r physics to chemistry *v.* to like, choose, or want one thing or person better than another
239. achieve a vi___e relationship *adj.* capable of being done as intended; able to succeed
240. in_____ve care *adj.* involving a lot of work or activity in a short time
241. tr_____rm an education system *v.* to change in outward structure or looks;
242. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
243. in_____l a door *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
244. dec_____ze their manufacturing process *v.* to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
245. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
246. co_____er ship *n.* a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land
247. vo__r apathy *n.* a person who votes or has a legal right to vote in a political election
248. di_____s a person from the office *v.* to regard something or someone as not important and not worth considering; to terminate someone's employment

ANSWERS: 237. unlimited, 238. prefer, 239. viable, 240. intensive, 241. transform, 242. critic, 243. install, 244. decarbonize, 245. involve, 246. container, 247. voter, 248. dismiss

249. 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
250. global em_____ons of greenhouse gases *n.* the act of production or sending out gas, heat, light, etc.
251. es_____al commodities of life *adj.* indispensable; fundamental
252. per_____ty test *n.* a person's distinct combination of character, behavioral, temperamental, emotional, and mental traits that define them as an individual and set them apart from others
253. blood ve___ls *n.* a ship or large boat
254. app_____ely 3 feet long *adv.* close to a specific number or time but not exactly that number or time
255. toxic ch_____als *adj.* relating to or connected with chemistry;
256. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
257. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
258. many tr_____ons of dollars *n.* the number 1,000,000,000,000; a million million
259. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 249. degree, 250. emission, 251. essential, 252. personality, 253. vessel, 254. approximately, 255. chemical, 256. consume, 257. operate, 258. trillion, 259. resolution

260. obsolete fos_____ed ways	<i>adj.</i> transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
261. developmentally im_____re	<i>adj.</i> not fully developed or grown; not fully mature
262. guarantee re_____le delivery	<i>adj.</i> worthy of being relied on; trustworthy
263. a de_____nt person	<i>adj.</i> relying on someone or something else for support or aid
264. civil av_____on	<i>n.</i> the activity or process of designing, building, flying, and maintaining aircraft
265. el_____fy a manufacturing process	<i>v.</i> to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
266. he was en_____ly to blame	<i>adv.</i> completely
267. the hydrogen binds the ox_____n	<i>n.</i> the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
268. spare co_____nts for cars	<i>n.</i> one of several parts that combines with others to form something bigger
269. id_____fy gene sequences	<i>v.</i> to recognize someone or something and say or prove who or what they are
270. an energy eff_____cy	<i>n.</i> the state or quality of doing something well with no waste of input such as time or money
271. high vo_____e	<i>n.</i> the amount of space occupied by an object or substance; the magnitude of sound

ANSWERS: 260. fossilized, 261. immature, 262. reliable, 263. dependent, 264. aviation, 265. electrify, 266. entirely, 267. oxygen, 268. component, 269. identify, 270. efficiency, 271. volume

272. a fos_____ed grove *adj.* transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible
273. do on a con_____nt basis *adj.* always behaving or happening in the same way, or having the same thoughts, standards, etc.
274. pi____r of society *n.* a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
275. dec_____ze its energy system *v.* to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy
276. burning ke_____ne *n.* a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
277. per_____ty trait *n.* a person's distinct combination of character, behavioral, temperamental, emotional, and mental traits that define them as an individual and set them apart from others
278. cr_____le source *adj.* capable of being trusted or believed
279. no do__t about the news *n.* a feeling of being uncertain about something, especially about how good or accurate it is

ANSWERS: 272. fossilized, 273. consistent, 274. pillar, 275. decarbonize, 276. kerosene, 277. personality, 278. credible, 279. doubt

280. ch__n reaction *n.* a series of connected links or objects; a system or group of interconnected elements; a restraint or shackle
281. vo___e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
282. co_____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount
283. re_____le access *adj.* worthy of being relied on; trustworthy
284. bre_____ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
285. sp__k a chain reaction *v.* to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
286. na_____ve poetry *n.* a story or a description of a series of events or process of telling a story
287. an eco_____al meal *adj.* providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
288. face inc_____gly complicated challenges *adv.* more and more
289. 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

ANSWERS: 280. chain, 281. volume, 282. consume, 283. reliable, 284. breakthrough, 285. spark, 286. narrative, 287. economical, 288. increasingly, 289. economy

290. issue a w__t *n.* a written legal order or command
291. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
292. congratulate the ne_____eds *n.* a person who has recently married and is still in the early stages of their marriage
293. the em_____on of light *n.* the act of production or sending out gas, heat, light, etc.
294. op_____ze a process *v.* to make the best or most effective use of something
295. pre-mo_____n agricultural society *adj.* of or belonging to the present time or recent times
296. ab__e a storm *v.* to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time

ANSWERS: 290. writ, 291. possibility, 292. newlywed, 293. emission, 294. optimize, 295. modern, 296. abate

Session 3: Fill in the Blanks

1. The _____ and the oxygen react and then form water.
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
2. 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
3. The blood's red coloring comes from iron _____.
n. a chemical compound that contains at least one oxygen atom and one other element
4. The company undertakes _____ development for software companies in many countries.
adj. situated at or happening in the sea, not far from the shore or land; (of winds) coming from the land
5. The colors of the shirt and pants totally _____ making the outfit look ridiculous.
v. to put together or match items that are not compatible or do not fit well together; to be different from or not correspond to something else
6. I stopped by the branch though I have no business of _____.
n. the quality of being important and worthy of note
7. He made a New Year's _____ to exercise more and eat healthier.
n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 1. hydrogen, 2. individual, 3. oxide, 4. offshore, 5. mismatch, 6. importance, 7. resolution

8. There are five distinct _____ at five unique wavelengths.
n. the act of production or sending out gas, heat, light, etc.
9. This container has a _____ of 10 cubic meters.
n. the amount of space occupied by an object or substance; the magnitude of sound
10. Doctors are gradually coming around to the idea of using _____ medicines.
n. one of two or more available possibilities or choice
11. The small island nation is heavily _____ on tourism as its main source of income.
adj. relying on someone or something else for support or aid
12. The technology _____ is constantly evolving and innovating.
n. a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
13. The _____ party strongly disagreed with the government's proposed legislation.
n. the act of disagreeing or resisting; the state of strong disagreement
14. Trial and error is an _____ part of education.
adj. indispensable; fundamental
15. Enhanced rail _____ is crucial for our business.
n. a system for moving people or products from one location to another using automobiles, roads, and so on

ANSWERS: 8. emissions, 9. volume, 10. alternative, 11. dependent, 12. sector, 13. opposition, 14. essential, 15. transportation

16. The _____ scarcity most severely impacted the manufacturing sector
- n.* a substance that is typically burned to generate heat or energy
17. She carefully _____ the rope so that it wouldn't tangle.
- v.* to wind something in a spiral or helical shape; to create a coil or coil-like shape; to group or organize something closely together in a circular or spiral pattern
18. She had a vibrant _____ that made everyone feel at ease.
- n.* a person's distinct combination of character, behavioral, temperamental, emotional, and mental traits that define them as an individual and set them apart from others
19. The federal _____ is planning to increase taxes for the next fiscal year.
- n.* the group of people with authority to control a country or state
20. This bridge is the third largest _____ bridge in the world.
- n.* a strong metal alloy made up of iron with typically a few tenths of a percent of carbon used for making things that need a strong structure
21. Our company is strongly _____ to meeting customers' needs.
- adj.* willing to put in a lot of effort, time, and energy into something; firmly believing in something
22. 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
23. The _____ of the energy production process is a large amount of carbon dioxide emissions.
- n.* a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 16. fuel, 17. coiled, 18. personality, 19. government, 20. steel, 21. committed, 22. develop, 23. byproduct

24. Later, his claim was found to be _____ false.
adv. completely
25. The country was instrumental in promoting the _____ treaty.
n. the number and variety of plants and animals that exist in a particular area or the world and make a balanced environment
26. The company's _____ approach has been highly effective.
n. the action or process of changing to suit different conditions
27. 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
28. The committee has decided to _____ the president from the post.
v. to regard something or someone as not important and not worth considering; to terminate someone's employment
29. The election administration nullified the election results because of _____ fraud.
n. a person who votes or has a legal right to vote in a political election
30. Trees absorb _____ dioxide and give off oxygen.
n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
31. The _____ of water produces oxygen and hydrogen.
n. a process or technique of chemical decomposition produced by passing an electric current through an ion-containing liquid or solution

ANSWERS: 24. entirely, 25. biodiversity, 26. adaptation, 27. economy, 28. dismiss, 29. voter, 30. carbon, 31. electrolysis

32. During the unloading, the container box _____ a clicking sound.
- v.* to give off or send out something such as light, heat, sound, gas, etc.
33. Each _____ member of the council has the right to vote on important decisions.
- n.* one of the parts of the whole; a person represented by an elected official
34. We will _____ to find a solution to the problem as quickly as possible.
- v.* to make an earnest attempt or effort; to strive or work hard towards a goal or objective
35. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
36. A ball flew in a big _____.
- n.* the shape of a portion of a circle or other curved line
37. He was served with a _____ of eviction, giving him the notice to vacate the property.
- n.* a written legal order or command
38. 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
39. His anti-_____ practices were quite strict.
- n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things

ANSWERS: 32. emits, 33. constituent, 34. endeavor, 35. involves, 36. arc, 37. writ, 38. recognize, 39. luxury

40. The company has made great strides in its _____ toward sustainability.

n. the act or process of changing to the next stage or phase or moving forward

41. The judge may _____ the decision of the lower court.

v. to support or defend something, such as a law, idea, decision, etc.

42. The production of _____ fuels requires massive volumes of fresh water.

adj. capable of being renewed, extended, or replaced

43. He was an atheist and therefore did not believe in the _____ of heaven or hell.

n. the state or fact of someone or something existing

44. We _____ the season's total trade deficit at \$50 billion.

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

45. Because of his excellent performance, he will _____ be promoted.

adv. in a manner that cannot be avoided or prevented

46. The company's HR department emphasized the importance of treating all employees _____.

adv. in a just, fair, and impartial manner; without showing favoritism or bias towards any particular individual or group

47. The spaceship began to burn up as it approached the Earth's _____.

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

48. The majority of synthetic vitamins are _____ from oil.

v. to make goods in large numbers, usually in a factory using machines

ANSWERS: 40. progression, 41. uphold, 42. renewable, 43. existence, 44. estimated, 45. inevitably, 46. equitably, 47. atmosphere, 48. manufactured

49. The advent of _____ fertilizers markedly increased agricultural productivity.
n. a compound of nitrogen and hydrogen that forms a gas with a strong smell, used as cleaning substances, fertilizers, and explosives
50. The waves are beating against the _____.
n. the land along the edge of a sea, lake, broad river, or other large body of water; (verb) to support by placing against something solid or rigid
51. The birds _____ open water areas with reeds around them.
v. to like, choose, or want one thing or person better than another
52. _____ gas is used to inflate car tires because it does not react with rubber.
n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
53. It is more _____ to wash your plastic bottle and reuse it.
adj. providing a satisfactory return on the money, time, or effort; not using more money, fuel, etc. than necessary
54. The spider can _____ multiple different silk proteins.
v. to combine a substance to make a more complex product or compound
55. This trail takes _____ 2.5 hours.
adv. close to a specific number or time but not exactly that number or time
56. You are not _____ in your behavior.
adj. always behaving or happening in the same way, or having the same thoughts, standards, etc.

ANSWERS: 49. ammonia, 50. shore, 51. prefer, 52. Nitrogen, 53. economical, 54. synthesize, 55. approximately, 56. consistent

57. _____ and weather have an impact on every part of our lifestyles.
n. the weather in a particular location averaged over some long period
58. The construction industry is labor _____ although it has been somewhat automated by introducing large machinery.
adj. involving a lot of work or activity in a short time
59. Companies often _____ their shares to lower the stock price and encourage investors to buy.
v. to divide, or to make something divide into two or more parts, especially along a particular line
60. He tried to _____ his anger by taking deep breaths and counting to ten.
v. to lessen, reduce, or diminish in intensity or severity; to decline or wane in amount or strength over time
61. Red _____ is often harmful to the local ecosystem.
n. the cyclical rise and fall of sea level caused by the moon's gravitational pull
62. The baby's chubby cheeks and big eyes made her look so _____.
adj. attractive, especially in a childlike or youthful way
63. The brave _____ rescued the prince from the dragon's lair.
n. a woman admired or idealized for her courage, outstanding achievements, or noble qualities; a woman who is the protagonist of a literary work or film
64. His _____ behavior often gets him into trouble.
adj. not fully developed or grown; not fully mature

ANSWERS: 57. Climate, 58. intensive, 59. split, 60. abate, 61. tide, 62. cute, 63. heroine, 64. immature

65. An _____ data plan is a popular option for heavy internet users.
adj. without any limits or restrictions
66. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
67. I will introduce you to how to _____ the leading causes of the malfunction.
v. to recognize someone or something and say or prove who or what they are
68. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
69. _____ is the start, not the end, of intelligence.
n. a feeling of being uncertain about something, especially about how good or accurate it is
70. The two art pieces were hung on opposite walls and acted as _____ elements in the room's decor.
adj. serving to complete or enhance something in a way that is suitable or pleasing
71. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
72. The _____ waves crashed against the shore, creating a mesmerizing sight.
adj. relating to or characteristic of the ocean or its inhabitants; having to do with the vast expanse of saltwater that covers most of the Earth's surface

ANSWERS: 65. unlimited, 66. electron, 67. identify, 68. tradition, 69. Doubt, 70. complementary, 71. achieve, 72. oceanic

73. The supermarket had a large _____ section with all kinds of fresh produce.
n. the process of cooling or freezing something, especially food, to preserve it
74. You can be more _____ and creative in your approach.
adj. able to change or be changed to suit new conditions or situations; able to bend easily
75. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds
76. The ballerina's _____ movements left the audience mesmerized.
adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
77. This country _____ its weapons in the east region.
v. to move troops or weapons into a position or military action; to bring into something in an effective way
78. This machine is too difficult to _____ for me.
v. to work in a particular way; to supervise something
79. 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
80. The product developed through years of research continues to _____ the market.
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 73. refrigeration, 74. flexible, 75. molecule, 76. supple, 77. deployed, 78. operate, 79. oxygen, 80. electrify

81. He emphasized the _____ of immediate action.

n. the state or fact of being needed; anything indispensable

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

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

83. The wedding _____ was a beautiful and emotional event.

n. a formal event or ritual, often religious or solemn

84. 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.

85. _____ all the parties signed the contract.

adv. almost completely

86. We can resolve support requests quickly and _____ by utilization of AI.

adv. in a way that produces maximum output with minimum effort or expense

87. 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

88. Our company must continue to strive for greater _____.

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

89. A smaller car will _____ less fuel.

v. to spend something, especially fuel, energy, or time, in a large amount

ANSWERS: 81. necessity, 82. component, 83. ceremony, 84. gene, 85. Virtually, 86. efficiently, 87. degree, 88. efficiency, 89. consume

90. The lamp in the cabin burned _____ for light.
n. a flammable, colorless, or pale yellow liquid derived from the distillation of petroleum, used as a fuel for lamps, stoves, and heaters
91. Management must take _____ responsibility for the accident.
adj. furthest or highest in degree or order
92. The project's _____ was uncertain, so we put it on hold.
n. the ability of something to be successful or to continue to exist
93. It isn't very reasonable to _____ money with happiness.
v. to consider or describe one thing as similar, equal, or analogous
94. It is _____ for politicians to be effective communicators.
adj. very important or requiring attention or action
95. Accidental ingestion of _____ moonshine has resulted in death.
n. a poisonous chemical substance that is the simplest alcohol formed when methane reacts with oxygen
96. That statement by the prime minister drew _____ international criticism.
adj. (especially of a feeling) very strong; extremely sharp or severe
97. Where can I _____ the application form?
v. to get something, especially by making a great effort
98. Their headquarters are in a _____ skyscraper.
adj. of or belonging to the present time or recent times

ANSWERS: 90. kerosene, 91. ultimate, 92. viability, 93. equate, 94. imperative, 95. methanol, 96. intense, 97. obtain, 98. modern

99. The essence of economics is to _____ the allocation of limited resources.
v. to make the best or most effective use of something
100. When the first molecule in the _____ receives a signal, it activates other molecules.
n. a track that constitutes or serves as a path; an approach or a way of doing something
101. The _____ couple went on a romantic honeymoon in a tropical paradise.
n. a person who has recently married and is still in the early stages of their marriage
102. 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
103. He has a _____ demeanor and always presents himself in a polished manner.
adj. having or showing the skill appropriate to a particular job; competent or skillful
104. The _____ arrived in port the following day.
n. a ship or large boat
105. Trains are _____ inexpensive, and ideal for long-distance travel.
adj. worthy of being relied on; trustworthy
106. The book is a _____ story about a young boy growing up in a small town.
n. the process of reaching maturity and assuming adult responsibilities

ANSWERS: 99. optimize, 100. pathway, 101. newlywed, 102. doll, 103. professional, 104. vessel, 105. reliable, 106. coming-of-age

107. _____ struggle to develop various laws and regulations to address international trade conflicts.
n. a person in charge of or involved in developing action plans for a political party, business, etc.
108. The _____ of smoke rising from the building signaled a massive fire.
n. a tall, vertical column or support structure that helps to hold up other parts of a building or structure; a person or thing regarded as providing essential support or core strength to something
109. The project's success was _____ to the team's hard work.
v. to attribute something to a particular cause or source
110. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort
111. The _____ of getting the disease will drastically increase.
n. a chance that something may happen or be true
112. The fire spread rapidly, engulfing everything in its path in a _____ inferno.
adj. intense or scorching heat
113. The bankruptcy of the giant conglomerate _____ turmoil in the stock market.
v. to start something or make it grow, especially suddenly; to emit a tiny piece of fire or electricity
114. _____ design has become more focused on human nature aspect than ever before.
adj. of or relating to or resulting from industry

ANSWERS: 107. Policymakers, 108. pillar, 109. ascribed, 110. industrious, 111. possibility, 112. burning, 113. sparked, 114. Industrial

115. _____ is also necessary to understand history.

- n.* the ability to share another person's feelings or experiences by imagining that person's situation

116. _____ elections were held in several European countries.

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

117. He did _____ pen-and-ink drawings in just a few days.

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

118. The _____ expert analyzed the fluid around the aircraft.

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

119. The ___ flew over the ocean at high speed, reaching its destination in hours.

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

120. Our company found it _____ difficult to keep up with the competition.

- adv.* more and more

121. The new regulations _____ a significant change in the industry standards.

- v.* to be the essential or fundamental elements or parts of something; to establish, appoint, or assign someone to a particular office or position; to make up or compose something

122. The _____ on my bike broke, leaving me stranded.

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

ANSWERS: 115. Empathy, 116. Communal, 117. complicated, 118. aviation, 119. jet, 120. increasingly, 121. constitute, 122. chain

123. The _____ pressure to conform is strong in this community.

adj. relating to society or social relationships

124. The company is trying to _____ its business model to stay competitive.

v. to imagine or conceive of something in a new or different way

125. The _____ handles multiple plot lines and has unpredictable ends.

n. a story or a description of a series of events or process of telling a story

126. The government should view children as national assets and actively _____ in them.

v. to put money, effort, time, etc. into something to make a profit or achieve a result

127. 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

128. The dinosaur bones were so old that they had been wholly _____ turning to stone over millions of years.

adj. transformed into a fossil (= something preserved in rock for a very long period) or preserved in the form of a fossil; antiquated or inflexible

129. Her research team made an important _____.

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

130. The firm has grown into a large _____ manufacturing.

adj. relating to or connected with chemistry;

ANSWERS: 123. societal, 124. reimagine, 125. narrative, 126. invest, 127. magnets, 128. fossilized, 129. discovery, 130. chemical

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

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

132. They didn't have any _____ evidence of his innocence.

adj. capable of being trusted or believed

133. We have to seek methods to _____ its fossil fuel economy.

v. to stop or reduce emitting carbon gases, especially carbon dioxide, by replacing energy made from fossil fuels with renewable energy

134. The new president was _____ immediately after the national election.

v. to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position

135. Advocates for legal reform hear less harsh words from their _____.

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

136. The machine should be _____ by Friday afternoon.

adj. relating to a particular process or series of actions for achieving a result

137. The restaurant uses large _____ to store its food ingredients.

n. a receptacle or object used to hold, store, or transport something; a large standardized metal box that is used for transporting goods by sea or land

138. Male gorillas with good drumming skills are more _____.

adj. capable of being done as intended; able to succeed

139. It was the _____ of a dinosaur tooth.

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

ANSWERS: 131. turbines, 132. credible, 133. decarbonize, 134. installed, 135. critics, 136. operational, 137. containers, 138. viable, 139. fossil

140. The _____ of Mexico is a body of water in the southern United States.

n. a large ocean inlet or deep bay that is partially enclosed by land

141. My father's death _____ my life completely.

v. to change in outward structure or looks;

142. Solar gravity creates _____ pressures and temperatures.

adj. very great in amount or degree

143. One light year is nearly 6 _____ miles.

n. the number 1,000,000,000,000; a million million

144. The _____ for applying for a visa can be lengthy and complicated.

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

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

v. to set free or allow to escape from confinement

146. I am _____ opposed to his idea because of morality.

adv. without restriction or limitation; completely or utterly

147. Efforts to _____ the effects of climate change require a coordinated and sustained effort by governments, businesses, and individuals.

v. to make less severe or less intense; to alleviate or lessen the adverse effects of something

ANSWERS: 140. Gulf, 141. transformed, 142. extreme, 143. trillion, 144. process, 145. release, 146. absolutely, 147. mitigate

148. A technique called deep learning has led to _____ in AI.

- n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

ANSWERS: 148. breakthroughs